D. A. Bell

1984-1986

1984-85

Catalogue #001-066

1985

Journal

1986

Catalogue #067-121
Journal

D. A. Bell

1984-85

Catalogue #001-066

Douglas A. Bell
1984/85

Catalogue

2930 Redwood Road, Napa city, Napa Co., Calif.

June 28, 1984

172852
001 ♂ Aphelocoma coerulescens oocleptica Ad. Sk., Testis 4.5x2.5mm
(coll. by Robert E Jones) Wt. 94 gms

172853
002 ♀ Aphelocoma coerulescens oocleptica Imm. Sk. (coll. by Robert E. Jones) Wt. 87gm

Etna Springs, Pope Valley, Napa Co., Calif

Sept. 15, 1984

003 ♂ Sturnus vulgaris Juv. Sk., Testis 1.0 x 2.0 mm. Slight fat.
(coll. Robert E. Jones) Molt. Wt. 74 gms

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.

May 15, 1985

172379
004 Larus occidentalis (found dead by Cynthia Annette)

005 Larus occidentalis (found freshly dead by Cynthia Annette)

May 18, 1985

To MVZ Exchange egg
006 Larus occidentalis One egg from nest #8, Parade Grounds. 86.2gms
64.6 x 49.65 mm. Small keim. Yolk, egg-white & shell saved.

TO MVZ X-CHNG egg
007 Larus occidentalis One egg from nest #124, Parade Grounds 84.5gms
73.05 x 46.98 mm. Small keim. Yolk, egg-white & shell saved.

TO MVZ X-CHNG egg
008 Larus occidentalis. Egg #1 from nest LB, Parade Grounds. 84.2 gms
69.95 x 48.58 mm. 13 mm chick. Shell only saved.

TO MVZ EXCHNG egg
009 Larus occidentalis Egg #2 from nest LB, Parade Grounds 87.8gms
71.12 x 48.95 mm. 13 mm chick. Shell only saved.

TO MVZ X-CHNG egg
010 Larus occidentalis Egg #3 from nest LB, Parade Grounds 82.65gms
70.06 x 47.17 mm. 13 mm chick. Shell only saved

Douglas A. Bell

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Catalogue

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.

May 18, 1985

TO MVZ X-CHNG egg 011 *Larus occidentalis* Egg #1 from nest 29, Parade Grounds. 88.75 gms
70.63 x 49.06 mm. Shell & egg-white saved. Small keim (<1mm Ø)

TO MVZ X-CHNG egg 012 *Larus occidentalis* Egg #2 (?) from nest 29, Parade Grounds 93.6 gms
73.79 x 49.48 mm. Shell, yolk & egg-white saved. Small keim (<1mm)

TO MVZ X-CHNG egg 013 *Larus occidentalis* Egg #3 (?) from nest 29, Parade Grounds 86.6 gms
68.56 x 48.86 mm. Shell, yolk and egg-white saved. Small keim (<1mm)

May 20, 1985

014 ♂ *Larus occidentalis* Ad. Plumage. Mated to 015. Nest #117 - Parade Grounds, 1,050 gms
Both testes large; 1.6 x 1.3 cm. (centimeters). Eyes: pearl-mustard,
Eyering: deep yellow, Feet & legs: fleshy pink, Bill: deep yellow

172381
015 ♀ *Larus occidentalis*. Ad. Plumage. Mated to 014. Nest #117 - Parade Grounds. Egg, ripe and 1,060 gms
Egg in oviduct: wt. 95.45 gms 71.12 x 50.3 mm
with all shells, in oviduct. Eyes: pearl-mustard, Eyering: deep yellow,
Feet & legs: fleshy pink; Bill: deep yellow. >50 ova (yellow) in ovary. Most < 2mm Ø. 2 ova 7x7.5mm; 1 ovum 7x8mm, 2 ova 7x6.5, 1 ovum 7x6.0mm, 1 ovum 7.5x6.0mm 3 ova 4 x 3.5 mm. Rest < 2mm Ø.

TO MVZ X-CHNG egg 016 *Larus occidentalis* Egg #1 from Nest #117 - Parade Grounds 100.12 gms
72.93 x 51.09 mm. Shell, yolk & egg-white saved. Small keim.

TO MVZ X-CHNG egg 017 *Larus occidentalis* Egg #2 from Nest #117 - Parade Grounds. 100.12 gms
69.5 x 52.65 mm. Shell, yolk & egg-white saved. Small keim.

~~018~~

East Sand Island, Mouth of Columbia River, Oregon

Clatsop Co., Oregon

(approachable by boat from Chinook, WA). In Baker Bay, WA.

172817

June 4, 1985

h 018 ♂ *Larus* occidentalis x glaucescens Ad. Plumage. Trapped on nest. Wt. 1150 gms
Nest located in natural grass, drift wood area in middle of island
(tertiary-use area). Iris - pearl grey/yellow; Eyering - yellow; Bill -
yellow. Legs & feet - flesh (sl. pink). Testes: L 16 x 10 x 10 mm R 11 x 9
x 8.5 mm. Liver - Left lobe: 6.8 x 4 cm, 19 gms; Right Lobe - 6 x 3.5 cm, wt. 16 gms

Douglas A. Bell
1985

Catalogue

East Sand Island, Columbia River Mouth, Oregon (near Chinook, WA); at Baker Bay, WA. Clatsop Co., ORE

018 - cont.

1 liver fluke in R. lobe. Brood patches present. Type of mate unknown. 3 eggs in nest. Tongue preserved in Bouin. Tissue taken. Light fat.

June 5, 1985

172723
h + lg 019 ♀ Larus glaucescens Adult plumage. Trapped on nest Wt. 950 gms containing 3 eggs. Iris - mottled ochre-violet. Eyering - deep pink. Feet & legs - flesh, slightly pink. Bill - greenish yellow Left ovary w/ova: 2 ova > 5 mm ⌀, 8 ova > 3mm ⌀ but less < 5mm and 23 ova < 3 mm. Right ovary inactive 3 brood patches. Mated to a male having wing-tips slightly darker than mantle. This bird 018 looks like a "Glaucous-winged". Nest in same area as 018. ✓ Tissues taken. Moderate fat.

10/H
MVZ 020 ♀ Larus occidentalis x glaucescens Ad. plumage. Trapped on nest Wt. 850 g
172818 (located in same area as 018). Eyering yellow, Iris pearl mustard greyish, Bill - yellow, Feet & legs - fleshy pink. 3 eggs in nest. Right ovary inactive, left active, 3 ova > 3 mm ⌀, 5 ova < 3 mm ⌀ > 1mm ⌀, 30 ova < 1 mm. Liver: left 6.8 x 3.2 cm, 20 gms; Right: 6.1 x 3.6 cm 14 gms. Mated to a Western Gull w/yellow eye ring, dark mantle and wing-tips. Brood patches. 3 Eggs saved → egg white taken (#020 A-B-C). Tissues taken Light fat.

eggs
020 A-B-C Larus occidentalis x glaucescens. Three egg clutch from nest of 020.
MVZ 13606 Wts: 84 (A), 82 (B) & 88 (C) gms. Shells & egg-white saved (Steve Speich).
Egg white from 020-A 020-B.

Doug Bell
1985

Catalogue

Thurston Co., WA
PORT OF OLYMPIA (between log stacks and marina), Olympia, WA.

JUNE 7, 1985

eggs Larus glaucescens
[illegible] 13619 021 A-B-C Three egg clutch taken from nest of following pair. Shells and egg-white saved (Steve Speich). Wt: A: 90 g., B: 94, C: 95 gms

172709
022 ♂ Larus glaucescens Trapped first. Mate of 023. Light grey mantle & primary tips. Eye ring pink. Iris mottled brownish maroon magenta, Bill dull yellow w/greenish tinge. Feet & legs fleshy pink. 3 brood patches. Liver: Left: 5.8cm x 3.7 cm, 18 gm., Right 8.4 x 3.7 cm 23 gms. Testes: Left - 1.5 x 1.12 x 1.1 cm. Right - 1.15 x .88 x .88 cm Tongue preserved. Tissues taken. Light fat Wt. 1,130 gms

172710
023 ♀ Larus glaucescens. Trapped second. Mate of 022. Light grey mantle & primary tips. Eye ring pink. Iris mottled maroon & dark brown. Bill dull yellow w/greenish tinge. Feet fleshy pink. Liver: Left: 6 x 3 cm, 19.3 gms; Right: 6.5 x 3.3 cm 20.0 gms. Ova: 3 ~ 5 mm ⌀, 5 between 3-5 mm ⌀, 7 between 2-3 mm ⌀, 12 < 2 mm ⌀. Tissues taken. Tongue preserved. Blood taken (Plasma only). Light fat. Wt. 930 gms.

WEST BAY DRIVE (old pier - across from PORT of Olympia), Olympia, WA. Thurston Co. WA

JUNE 9, 1985

172711
024 ♀ Larus glaucescens. Trapped off 1-egg nest. Egg #2 ready to be laid, in oviduct. Pink eye ring. Mottled magenta-maroon brownish iris. Bill deep yellow. Legs & feet pale fleshy pink. Wt. 1,140 gms w/egg in ovid. Mated to similar appearing bird ie: primary tips slightly darker than mantle. Liver: left 5.35 x 3.2 cm 16 gms right 6.8 x 3.5 cm 22 gms Lg. Yolk in Oviduct Egg in oviduct - ready to lay. Tissues & tongue taken. Blood taken

Doug Bell
1985

Catalogue

West Bay Drive, Olympia, WA. Thurston Co., WA.

June 9, 1985

MVZ
13620 eggs
025 A-B Larus glaucescens - Two eggs from DAB 024 - egg A: in nest. wt. 98 gms
Egg B: in oviduct - ready to lay. Wt 100 gms
Shells + egg-white saved.

St. Regis Pulp Plant - Champion Int'l. Corp. Port of
Tacoma, WA. Pierce Co., WA.

June 10, 1985

172719
026 ♀ Larus glaucescens - Ad. plumage. Trapped off nest w/ wt. 1,040 gms
3 eggs (DAB 027-A-B-C). Eye ring pink, Iris mottled
dk. magenta-maroon on a pearl background. Feet + legs - dull fleshy
pink. Wing-tips slightly darker than mantle. (typical of birds
at this plant). Liver: Left lobe: 5.4 x 3.2 cm 17 gms
R. Lobe: 7.25 x 3.8 cm 24 gms
Left ovary w/ ova: 3 > 5 mm ϕ
5 ~ 2-5 mm ϕ
8 ~ 1 mm ϕ
15 < 1 mm ϕ
Tissues, Tongue + RBC's saved.

MVZ
13621 eggs
027 A-B-C Larus glaucescens - Three egg clutch of 026.
Egg A - 82 gms, B - 86 gms, C - 84 gms. Shells +
egg-white saved (Steve Speich).

172720
028 ♂ Larus glaucescens - Ad Plumage. Trapped off nest wt. 1,105 gms
with 3-egg clutch (029). Eye ring pink, Iris mottled dk. magenta on
a pearl background. Feet + legs dull flesh pink. Wing tips
slightly darker than mantle. Liver R: 4.85 x 3.6 cm 22.0 g
L: 6.5 x 4.0 cm 12.5 g
Testis L: 1.7 x 1.1 x 1.1 cm
R: 1.3 x 0.9 x 0.8 cm Tissues + Blood saved

MVZ
13622 eggs
029 A-B-C Larus glaucescens - 3 egg clutch from 028.
Egg A - 77 gms B - 88 gms C - 87 gms (Steve Speich) Shells + egg white saved

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PORT OF SEATTLE, PIER 91, BUILDING 48, SEATTLE, WA.
King Co., WA.

172704 JUNE 12, 1985

030 ♀ Larus glaucescens . Ad. Plumage. Primary tips ≅ to mantle color. Pink eye ring. Iris mottled dk. brown/magenta-maroon on a pearl background. Bill yellow. Feet dull fleshy pink. Trapped off 3-egg clutch (031 A-B-C) Wt. 905 gms.

Liver: R: 6.15 x 3.1 cm - 17 gms
L: 6.0 x 3.5 cm - 19 gms

Ova: 6 > 5mm ⌀
15 2-5mm ⌀
35 < 1 mm ⌀

Tongue + tissues taken.

Moderate fat. Brood Patches (3).

MVZ 13628

eggs 031 A-B-C Larus glaucescens 3-egg clutch from nest of 030. Egg 031-A wt 89 gms, B - 97 gms C - 94 gms

Protection Island, WA. (near entrance to Port Discovery)
Jefferson Co., WA

172689 June 14, 1985

032 ♀ Larus glaucescens . Ad. Plumage. Trapped off 2-egg nest (DAB 033). Eye ring tan, ~~very faint pink~~ to beige in color. Iris: mottled dk. brown on a pearl background. Feet & legs fleshy pink. Bill yellow. Wt. 925 gms

Primary tips slightly darker than ~~wing tips~~ mantle. Mate (♂) was of same appearance. Brood patches (3).

Liver: L : 6.45 x 3.4 cm 17 gms
R : 5.2 x 3.25 12 gms

Left ovary: 2 post-ova
5 ova ~ 5mm ⌀
9 ova 2-5mm ⌀
30 ova ~ ≤ 1mm ⌀

Ectoparasites

Tongue preserved in formalin. Tissues + Blood Taken.

MVZ 13615

eggs 033 A-B Larus glaucescens 2 egg clutch from 032.
Egg 033-A Wt. 70 gms B - 71 gms (broken)

Doug Bell
1985

Catalogue

PROTECTION ISLAND, Jefferson Co., WA.

172690 JUNE 14, 1985

034 ♂ Larus glaucescens. Adult plumage. Trapped off 2-egg clutch @ nest. Eye ring pale pink. Iris - mottled dark brown on pearl background. Bill yellow. Feet pale fleshy pink. Wt. 1,175 gms
Liver R: 16 gms 5.8 cm x 3.9 cm
L: 20.5 gms 7.5 cm x 3.5 cm
Testis: L: 1.7 x 1.1 x .95 cm
R: 1.4 x 1.05 x .90 cm
Brood patches (3). Tongue (formalin), tissues & blood taken. (plasma only)

MVZ 13316
eggs 035 A - B Larus glaucescens. Two-egg clutch from 034. Egg 035 A - 79 gms B - 80 gms.

172691
036 ♀ Larus glaucescens. Ad. plumage. Trapped off 1-egg clutch. Eye ring pink. Iris mottled dk. brown on pearl background. Bill - dull greenish yellow. Feet pale fleshy pink. ~~Regurtiga~~ Regurgitated many small fish (4 cm long). Wt. 842 gms.
Liver: L: 6.85 x 3.05 cm 17 gms
R: 5.00 x 3.50 cm 14.8 gms
Brood Patches (3)
L. Ovary: 6 ova ~ 5 mm ϕ
19 ova 2-5 mm ϕ
30 ova ≤ 1 mm ϕ
1 post-ovulatory ova
Tissues, tongue & blood taken.

MVZ 13617
egg 037 Larus glaucescens. 1-egg clutch of 036.
wt. 87 gms

Doug Bell
1985

Catalogue

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.

June 30, 1985

172382
skel. + wing 038 ♀? Larus occidentalis. Ad. plumage. 1 wing saved.

skel. + wing
039 Larus occidentalis. Ad Plumage. 1 wing saved. ♀?
172383

July 3, 1985

172384
040 ♂ Larus occidentalis. Trapped off 3-egg nest. Eggs rotton. 1,135 g wt. 1,035 gms

Wing chord: 147 cm. Deep yellow bill + eye ring. Iris pearl, with light smokey grey mottling over ventral half. Feet fleshy pink. 3 Brood patches - refeathering.
LIVER: L: 5.6 x 3.8 mm wt. 15.5 gms R: 7.5 x 4.3 mm Wt. 32 gms Testis: L: 6.5 x 6.5 x 9.0 mm - tan coloe. R: 4.8 x 4.8 x 6.8 mm - brown coloe.
Stomach empty. Light fat.

172385
skel. + wing
041 Larus occidentalis - Found dead. Adult. Breeding Plumage. 1 wing saved. ♀?

172386
042 Larus occidentalis. Chick (1 week Old?). Found dead. Neither skin nor skeleton worth saving. (Bob Jones). ~~Specimen thrown out~~ Skull has been saved.

Doug Bell
1985

CATALOGUE

Sugarloaf Rock, near Road to Petrolia (from Ferndale), Lighthouse
on shore next to Sugarloaf Rock, Cape Mendocino
Humboldt Co., Calif

July 5, 1985

WT. 880 gms

172293
043 ♀ Larus occidentalis. Ad. Plumage. Shot on beach. Eyering deep yellow.

Bill deep yellow. Feet fleshy. Iris - pearl with slight greyish mottling.
wing chord: 121.5 cm. LIVER: L: 5.2 X 3.9 cm 11 gms Ovary: 4 ova ~ 2-3 mm ⌀
R: 7.0 X 3.9 cm 16 gms. >50 < 1 mm ⌀
Brood patches (3) re-feathering. Light fat. Tissues taken.

July 6, 185

044 ♂ Larus occidentalis. Bill deep yellow. Eye ring
172294
deep yellow. Iris pearl with soft grey mottling
Feet flesh coloured. Last year of subadult plumage
weight: 1200g. No brood patches. Molt.
LIVER: R: 8.5 x 4.3, 27g yellowish
L: 6.2 x 4.1, 20g
TESTIS R: 0.68 x 0.90 cm x 0.70
L: 1.38 x 0.95 cm x 0.85
MEDIUM FAT
Tissues taken.

Alcatraz Island, San Francisco Bay, Calif.

172387
June 3, 1985

skel + wing
045 ♀? Larus occidentalis. Ad. Plumage. Found dead next to 1,025g (fresh wt.)
nest (Cynthia Annette). 3 brood patches. 1 wing saved.

Alcatraz Island, San Francisco Co., Calif.

May 20, 1985

eggs
046 Larus occidentalis. Clutch of 3 eggs taken from nest #20
A-B-C on Parade Grounds. A: 73.62 X 49.82 mm ; B: 71.79 X 50.88 mm 94.0 gms 94
MVZ 13608 C: 71.87 X 52.42 mm 100.5 gms. (order of laying: prob. C-B-A) Small keins.

Doug Bell
1985

Catalogue

South East Farallon,
Farallon Islands, San Francisco Co., Calif.

SKELETON
047
+
wing

♀ Larus occidentalis. Dead ~~Sick~~ bird, collected and ~~killed~~ by PRBO staff, between July 25-30. One leg removed, blood taken by PRBO staff. Ovaries also removed. Some ovary-like "grapes" (ф 1mm) still ~~left~~ remained on left ovary. Nothing or right side. 1 wing saved. Tissues taken. Adult plumage. Bill & eye-ring deep yellow. Legs pink. Fresh bird.

Wt. 630 gms (w/out 1 leg)

SKELETON
048
+
right wing

o? (♂?) Larus occidentalis. Dead (Dead!) ~~Sick~~ bird, collected and ~~killed~~ by PRBO Staff between July 25-30. Reproductive parts removed. Ad. Plumage. 1 wing saved. Tissues (muscle, Heart, Kidney only) taken. Not fresh.

Wt. 850 gms (Liver not present).

SKELETON
049
+
left wing

o?. (Larus occidentalis Dead Bird (!) collected by PRBO Staff between (Harry Carter PRBO staff) July 25-30. Ad. Plumage. 1 wing saved. Tissues (muscle, heart liver only) taken. Not fresh. 1 leg removed by PRBO

Wt. 680 gms (w/out 1 leg)

SKELETON
050
+
left wing

♂ ♂ Larus occidentalis. Dead Bird collected by Harry Carter of PRBO Staff on July 25-30. Adult Plumage. 1 leg removed by PRBO. Tissues taken. Bill & Eye ring deep yellow. Leg fleshy pink. Shot found in bird. Emaciated. Fresh. Right testes: 4.5 X 3.0 X 2.0 cm. Left testis gone.

Wt. 650 gms (w/out 1 leg)

DOUG BELL
1985

CATALOGUE

South-East Farallon
Farallon Islands, San Francisco Co., Calif.

173354
SKELETON
051
+
Left wing

♀ Larus occidentlis. Found dead, collected by PRBO Staff (Harry Carter) on July 5, 1985. Left leg removed by PRBO. Adult plumage, yellow bill and eye-ring. Rt Leg fleshy-pink. Tissues (L, K, H, M) taken. Reproductive organs removed by PRBO. Remnant ovary found.

(lf. leg missing)
Wt. 740 gms

173355
SKELETON
052
+
Right wing

♀ Larus occidentalis. Found dead, collected by PRBO staff on 10 July, 1985. Left leg removed by PRBO staff. Adult plumage. Yellow bill, fleshy leg. Remnant ovary found.

(w/out left leg)
Wt. 865 gms

173356
SKELETON
053
+
Left wing

♀ Larus occidentalis. Found dead on 21 June, 1985. Collected by PRBO Staff. Picric on breast, probably ♀ of A 7807. Adult plumage. Bill yellow. Leg fleshy. Left leg removed by PRBO. Emaciated.

(w/out left leg)
Wt 760 gms

173357
SKELETON
054
+
Left Wing

♀ Larus occidentalis. Found dead by PRBO Staff between July 25-30, 1985. Left leg removed by PRBO Staff. Last year of sub-adult plumage. Emaciated

(w/out left leg)
Wt. 580 gms.

173358
SKELETON
055
+
Left Wing

♂ Larus occidentalis. ~~Found dead by~~ Died from botulism on July 21, 1985 (PRBO staff) "Blood sample taken". Left leg removed by PRBO. Adult plumage, yellow bill + eye-ring. No reprods. M, L, H, K removed. Testes L: 7 x 5 x 4.3
R: 7.5 x 5 x 3.8

(- left leg)
Wt 935 gms

DOUG BELL
1985 CATALOGUE

SE Farallon I., Farallon Islands, San Francisco Co., Calif.

172359
SKELETON 056 + Right Wing
♂ Larus occidentalis. Found dead by PRBO staff btw. 25-30 July, 1985. Adult plumage. Yellow bill & eye-ring. Left leg missing. Wt. 810 gms -left leg.
T: L - 6.5 x 4.0 x 2.5 mm
R - 6.0 x 2.5 x 3.0 mm
M, L, H, K taken.

172360
SKELETON 057 [illegible] + Right Wing
♂ [illegible] Larus occidentalis. Wt. 1130 gms -right leg.
Found dead by PRBO staff between 25-30 July 1985.
Adult Plumage. Yellow bill, eyes & eye-ring decomposed.
Smells bad. M, L, H, K taken. Testes L: destroyed
R: 8 x 4.8 x 4 mm
Heavy Fat content.

172361
SKELETON 058 + Right Wing
♂ Larus occidentalis. Emaciated. Wt. 665 gms -left leg.
Found dead by PRBO Staff between 25-30 July 1985.
Adult Plumage. Yellow bill & eye-ring. T: L: 8 x 6 x 5 mm
R: 6 x 4 x 2.5 mm
Most of liver & digestive tract removed by PRBO.

172362
SKELETON 059 + Rt. wing
♀ [illegible] Larus occidentalis. Found dead by PRBO Staff between 25-30 July 1985. Smells bad. Bill discolored. Wt. 910 gms -left leg.
M, L (brown), H, K (brown) taken. Left ovary - many "grapes" <1mm ⌀.
3 "grapes" ≅ 1mm ⌀.

172363
SKELETON 060 + Right Wing
♂ Larus occidentalis. Found dead by PRBO Staff between 25-30 July 1985. Yellow bill & eyering. Wt 830 gms -left leg.
M, L, H, K (kidney looks like its been peppered with small yellow flecks) tissues taken. Left testie: 6 x 3.5 x 4.0 mm
R. T.: 5.0 x 3.5 x 3.0 mm

172364
SKELETON 061 + Right Wing.
♂ Larus occidentalis. Found dead by PRBO Staff between 25-30 July 1985. Yellow bill, eyering + iris. Wt. 920 gms -left leg.
~~Right~~ Left testie - deflated: 8 x 4 x 3 mm Right T. 8.5 x 4.5 x 3.0 mm
M L H K tissues taken.

Doug Bell
1985

Catalogue

SE Farallon I., Farallon islands, San Francisco Co., Calif.

172365
SKELETON
062
+
RIGHT WING

♂ Larus occidentalis. Found dead by PRBO Staff. -left leg.
between July 25-30, 1985
Yellow bill. Fairly far gone. Emaciated. Tissues taken LHMK.
Right Testis: 5 x 4 x 3 mm L.T.: 5.5 x 4.5 x 4.5 mm

172366
SKELETON
063
≠

♂ Larus occidentalis. Found dead by PRBO Staff. Wt. 810 gms -left leg
between July 25-30, 1985
Yellow bill. Emaciated. Tissues taken LHKM
L.T.: 8 x 4.5 x 4.2 mm R.T.: 8 x 4 x 4 mm

172367
SKELETON
064

♂ Larus occidentalis. Found dead by PRBO Wt. 980 gms -left leg.
Staff. Yellow bill + eyering. Tissues taken: LHKM,
but all far gone. RT.: 5.5 x 3.5 x 3.5 mm L.T.: 7.0 x 5.0 x 4.5 mm

172368
SKELETON
065

♀ Larus occidentalis. Found ~~[illegible]~~ dead Wt. 680 gms -left leg.
by PRBO Staff between 25-30 July 1985.
Yellow bill + eyering. Left ovary, most ova (~50) <2mm φ.
Tissue taken: MLHK. Good condition.

172369
SKELETON
066

♀ Larus occidentalis. Found dead by Wt. 680 gms -left leg.
PRBO Staff between 25-30 July 1985.
Yellow bill + eyering. Tissues taken: MLHK (poor condition)
Left oviduct visible, ovaries not visible - probably rotted away.

~~SKELETON
067~~

D. A. Bell

1985

Journal

List of localities
California
Northern Calif., Oregon, Washington

Field Notes   Douglas A. Bell

1985

Alcatraz Island, San Francisco Bay, San Francisco Co.,
California   19 April, 4 May, 12 May, 18 May
20 May, 30 June, 3 July, 26 July

Northern California, Oregon, Washington
1 June - 15 June

Humboldt County, California
5 July - 6 July

Farallon Islands, San Francisco Co., California
3 August

Marin County, California
22 August - 23 August

FIELD NOTES

LOCATION: Alcatraz Island, San Francisco Bay,
Calif.

Doug Bell
DATE: April 19, 1985

WEATHER: Clear, sunny. Temp. ~ 50's.
Light wind.

HABITAT: Rocky Island, old prison grounds.

TIME: 9:00 AM - 11:30 AM

Made a short tour of the island with Pat Kelly, Cynthia Annette and the National Park Service fellow Judd Howell. Judd is very nice and cooperative. He was in US Coast Guard, did work for Bureau of Land Reclamation in Wyoming where they surveyed Prairie Falcons and Bald Eagles, and came to Calif. on present job in 1980. He has a Masters from Arizona.

We looked for Western Gull nests specifically on the Power Plant, on the grassy knolls around the water tower, on top of the Laundry and Cell House, and at the Heliport. In all places there were either shallow scrapes to be seen or even constructed nests. No eggs were found anywhere, though. Lots of gulls about, many in pairs. Seem to be more gulls, or pairs thereof, than scrapes or nests. Upon our approach to the nesting areas the gulls got a bit excited, flying up and giving either a "klear" call or a row of "mup-mup-mup-mup" calls especially at the POWER PLANT. No defensive behavior towards us, and shortly the birds settled back down to their various resting places.

Gull behaviors: lots of intraspecific action. Gulls on the Laundry roof were pretty much spaced in pairs, sitting and standing. Much threatening between birds with one chasing (walking after) another. An actual contact fight occurred, with bill grasping and wing-beating. Quite rough. One bird seen walking with ~~drop~~ drooping wings and erect neck with bill pointed at an

FIELD NOTES

LOCATION: Alcatraz Island, S.F. Bay, CA. DATE: April 19, 1985

angle downwards. Some pairs were seen to "choke", displaying their nesting site. One dead adult gull found, well progressed in decomposing.

Other birds seen on Alcatraz:

White-crowned Sparrow (several siging)

Song Sparrow " "

Black-crowned Night Herons - many (~30), mostly adults sitting in various "colony" trees.

Anna's Hummingbird - male in dive-bomb courtship.

Heerman's Gull - (1) Flew about the laundry. Landed a top its roof and was subsequently chased by the Western Gulls sitting there. Judd Howell mentioned that when he studied Heerman's Gulls nesting here, they won encounters with Western Gulls as the island was less disturbed. When human disturbance increased, Western's began to win encounters more frequently.

Oystercatchers (8) - down on Baker Beach at West side of island.

FIELD NOTES

LOCATION: Alcatraz Island. S.F. Bay, Calif

WEATHER: Clear, but some high thin haze.
Sunny. Wind ~ 10-15 mph
T ~ 70's °F

Doug Bell

DATE: May 4, 1985

TIME: 11:00AM - 13:00

Checking status of gull nests with Cynthia Annette. Most nests still without eggs. In nests with eggs - clutches vary from 1-3 eggs. Recording length + width measurements, weights of eggs. Noting food remains around nests - ie: garbage chicken bones or fish. Gulls exhibit nervous behavior when we intrude on colony sites, "mup-mup-mup" call and "typical" call (long?) heard. Most birds just sored, almost stationary as we proceeded thru colonies. No attacking or dive-bombing defense yet.

Killdeer nest found atop rusty pile of rubble on flat yard next to Power Plant. 4 eggs, one chick hatching. Adult hanging around close to nest. Not making noise. Chick peeping heard.

TIME 13:20 - 13:50

Observing gulls on I.B.

About 35 gulls on IB. 16 associated more or less as pairs. 2 birds appear to be sitting on nests. One other bird was sitting on a nest for ~ 10 min., but then got up and walked off it. Birds which seem to be paired are sitting or standing within 1 meter of one another. About half the gulls are just laying flat on the roof, some with slightly opened wings - sunning. Wind is strong (15-20 mph?) - buffeting the birds. Of pair closest to this observation blind, the female has a black plastic band on left leg. This same pair did a defense display (?) - both birds walked with stiffend necks and bills angled slightly downward towards another pair. Calling. Pair at far end of IB tugging at grass roll, mutually carrying grass to nest. Although male carrying bigger chunks and depositing it at nest. Female carrying sprigs back and forth, not depositing it, but holding on to it. One pair involved

FIELD NOTES

DOUG BELL

DATE: May 4, 1985

LOCATION: Alcatraz Island, San Francisco Bay,
Calif.

WEATHER: Clear, but some high thin haze present
Sunny.

TIME: 13:20 – 13:50

Observing gulls on IB. (Industry Building (Laundry)). in courtship behavior – the female walked over to the male giving a mew call. With each "mew" she would cock her head back and pull it in, into her shoulders. (Immature gulls beg food in a similar manner). At the same time the female positioned herself to face the male at an angle, from one side. While mewing she also billed the male's bill, especially on the sides and at the gonys. The male responded with direct billing. The female's mewing lasted on the order of 2-3 minutes. Another pair started mewing too, and it lasted of same duration.

One Heerman's Gull sat on the cemment boader of the Industry Building's roof the whole time. It sat on the boarder just above an incubating Western Gull. No apparent distress on either birds' part.

FIELD NOTES

LOCATION: Alcatraz Island, S.F. Bay, Calif.

Doug Bell

DATE: MAY 12, 1985

WEATHER: Clear sunny. High winds.

TIME: 12:00 - 1640

Measuring and weighing eggs of Western Gull (Larus occidentalis). Cistern Area: nearly all nests in this area have at least one egg, and up to 3 eggs. Birds hanging very close to nests. Some make mild passes at me when I approach their nests. Especially the birds nesting on the walkway leading up to the cistern - this pair seems particalarly vehement. In all, the Gulls seem relatively calm. I could be checking one nest while a gull 4 yards away would resettle on its eggs. Most birds give the mup-mup-mup call when I disturb their nests. Industry Building: checked and measured eggs. Nests had from 0-3 eggs. Behavior of gulls same as for on the Cistern. Both cistern and IB colonies are quite close to one another. The cistern is on a northerly bluff, about 3 yards higher than the Industry Building roof and just east of the I.B., about a 2 yard gap separates the I.B. from the Cistern bluff. While I was checking nests I noticed one nest had apparantly come loose and was slowly skidding as a pile of weeds accross the IB roof. One egg was in it. Replaced nest to original (?) spot and anchored it down with rocks.

FIELD NOTES

DOUG BELL
DATE: MAY 18, 1985

LOCATION: Alcatraz Island, San Francisco Bay,
California.

WEATHER: Clear, sunny.

TIME: 9:00 - 14:00

Checking nests, measuring & weighing eggs of Western Gulls (Larus occidentalis). Checking all areas of the island. With C. Annette, Maren and Annette Bürger. Finding many new nests with 1-3 eggs in the rubble area, walkway north of the power house, and on the perimeter. These could be new gulls settling the island, or birds that were displaced from the parade grounds on the south end of the island.

We spotted a Heerman's Gull while checking nests on the Industry Building. It seems to always show up when we are in this area.

The gull nest on the I.B. that was being blown away during my last visit (5/12) is no longer in existence.

While walking the perimeter we found a nest with ½-normal sized gull eggs in it. Thought it to be Heerman's nest. However, a pair of Western gulls kept hanging around it. I at first kept scaring them off - afraid they wanted to eat the eggs. It turns out - they were incubating the ½-sized eggs.

FIELD NOTES

DOUG BELL
DATE: MAY 20, 1985

LOCATION: Alcatraz Island, San Francisco Bay, California

WEATHER: Clear, sunny, hot

TIME: 10:00 AM - 12:00

At Parade Grounds - attempting to trap adults using "Winkler's" modified gull trap. 10:30 set trap over nest w/ 2 eggs. A bird, the male, of a pair went in and sat on eggs as soon as I left the immediate vicinity. Caught this bird rather easily. Am now (10:42) waiting to see if its mate can be caught. The mate is at the nest, and was in attendance in the vicinity when I grabbed the male from the nest. 10:57: the mate (female?) went into the trap and sat on the eggs. Caught it too. (Nest #117). (Eggs from nest #20 also removed - as it was right in middle of helipad. 3 eggs in this nest). The sexes of the pair I describe above were correct. The first bird caught on the eggs was the larger of the pair, a ♂. The second bird caught was the ♀. She weighed 10 gms more than the male, yet was smaller. A ripe egg was in her~~e~~ oviduct. They had 2 eggs in nest, which I collected.

FIELD NOTES

DOUG BELL
DATE: JUNE 1, 1985

LOCATION: Eureka city, Humboldt Co., Calif
WEATHER: Overcast, drizzle.
TIME: 11:00AM

I am near the harbor, on same street as the Carson mansion. Viewing boat docks and Indian Island. Does not appear to be suitable nesting habitat on Indian Isl. for gulls. Too much human activity on the few spots that are not covered in Salacornium marsh.

LOCATION: TRINIDAD HEAD & BAY, HUMBOLDT Co., Calif.
WEATHER: Overcast, some clearing.
TIME: 14:00 - 17:00

Lots of gulls about. From the pier in Trinidad Harbor several pairs of gulls can be seen sitting on the various rocks in the bay. On one rock which is at the eastern end of the boat moorings is a pair which definitely has a nest. One bird is incubating and going thru the motions of sitting on eggs with turning and settling (rocking). The male (larger bird) is sitting on the pinnicle of the rock. This nest might be trapable, but its' hard to tell how level the nest surface is. The nest is on an incline of about 25°, but it may be on a flatter shelf. I may try to trap this pair.

Walked around trinidad head. Good view of ocean islands - lots of gulls, murres, cormorants, sea lions. (Pelagic Cormorant and Double-crested Cormorant). Some Western gulls are nesting on Trindad Head itself. Saw an adult carrying nesting material. On western side found a gull nest & pair on a cliff. From my position I could look down into the nest. 3 eggs visible. Many, (>100)

FIELD NOTES

DOUG BELL
DATE: JUNE 1, 1985

LOCATION: TRINIDAD HEAD - con't.

pairs visible on western, ocean island. This island would be difficult to visit as it is very steep. Lots of Western Gulls though. On trinidad head there were very numerous: Rufous-Hummingbirds, American Goldfinches, Brown-headed Cowbirds (parasitize the Goldfinches?). Barn Swallows, Wrentits. Also saw one Purple Finch, and one non-descript, uniform greyish small flycatcher.

Small flocks, of up to 12-15 gulls, cruised past in formation - these are somewhat composed of imm. birds. The imm. seem to be hanging out together, whereas the adults are just in pairs.

On beach at Trindad Harbor - placed trap over dead fish that the gulls had been feeding on. On female Western Gull - who had had possession of the fish, continued to ~~chash~~ chase other birds away from the trap. But she was too cautious to go in - kept avoiding the screen front w/chute, more-so than other parts of trap. While this bird looked to be a "good" Western Gull, another had grey outer primaries that were barely darker than its' mantle. Most birds of these parts were Western, but some grey influence in individuals evident. (ie: some birds tend to Glaucous-winged appearance).

FIELD NOTES

DOUG BELL
DATE: JUNE 1, 1985

LOCATION: CRESCENT CITY, Calif. Del Norte Co.
WEATHER: Clearing
TIME: 19:00 - 20:00

Many gulls in harbor and along crescent beach of bay. At least half are imm. No real nesting sites in bay, except for one island and an old pier. The old pier harbors some resting immatures, paired, but non-nesting adults (?!), pigeons and Belted Kingfishers. Of one non-nesting adult pair, their wing-tips were lighter than those of a good Western Gull. At about 19:40 all gulls along beach of bay (~200 birds) took off and headed west - towards off-shore isles and up the coast.

Camped overnight at Patrick Creek Camp in Six Rivers National Forest, along the Smith River, about 12 mi. up from Gasquet, CA.

JUNE 2, 1985

Drove to Portland, Ore. Stayed in Motel 6 on Highway 26 in Portland.

JUNE 3, 1985

In the morning met Geoff Dorsey @ Fish & Wildlife Branch of Army Corps of Engineers in Portland Office. Huge blond fellow. We discussed seabird colonies along Columbia River. For most islands he suggested using 14' skiff with 10-12 hp motor. For East Sand Island he suggested I go to Chinook, WA harbor. Klaus Richter has worked on these birds.

FIELD NOTES

Doug Bell
DATE: JUNE 3, 1985

LOCATION: EAST SAND ISLAND, Mouth of Columbia River (Baker Bay), Oregon. approachable from Chinook, WA.

HABITAT: Island ca. 44 ha. in size, about 1800 m long, 260 m wide at narrowest point. East & West ends broadened, middle narrow. East end has dredgings spread over it, but grasses have taken over cover. Soil here muddy. Elsewhere the island consists of sand hillocks covered in dense, but low grasses, herbs. Much driftwood about. North side intertidal marsh. other sides sandy beaches.

Arrived in Chinook, WA @ 15:00. Asked for boat rides. Arranged to meet LES CLARK @ docks at 16:30. He said he could take me out ~~to~~ in his Gill-netter to the downriver Sand I. – turns out, this was the wrong I. So we tried landing on the upriver (East Sand) Island. The ~~southern~~ northern shore first, then the ~~nort~~ eastern. Each time we got within a few yards of the shore – it was too shallow to go further (<1 m deep). We could have landed directly on the north shore had we had 2 more feet of tide (this is the area of marsh embankments and old pier. We had to go back to Chinook and get a skiff & hip-boots. Returned to east beach. Les dropped anchor, let the boat drift in. I hopped out into water, loaded skiff, and pushed it in. 3 trips with skiff we necessary to get the skiff in. Caspian tern colony (~1000 birds) was very upset, whirled around as I landed. Much rain the whole time. Soaking wet. I lugged my camping gear ~ ½ mile to the middle portion of the island. Set up tent near group of small pines.

FIELD NOTES

Doug Bell
DATE: JUNE 4, 1985

LOCATION: EAST SAND ISLAND, mouth Columbia River,
(Baker Bay), Oregon.

Up about 8:00 AM - it rained all night and continues to drizzle a bit. Some intermittant clearing. Spent late morning surveying area around camp and the eastern end of island. Checking for gull nests and possible trap sites. In the area just west of camp - natural sandy soil covered in short grasses and driftwood - an area about ½ size of a football field, found following nests:

# Eggs Present	No. of Nests
0	8
1	3
2	4
3	30

In eastern dredge-spill area, and on beach, found following:

# Eggs Present	# of Nests
0	0
1	0
2	1
3	6

13:00 - onwards.

Setting out traps. Weather has turned sunny. One trap on beach pair near gear, one trap on 3-egg nest in spill-dredge area. No luck though. I would check one trap, then the other. Each time my approach would be announced by all birds in area. Gulls had either time to walk out of trap before I got to it. Tried trapping in area just west of camp. This worked better - could hide and "rush" trap. Caught a male gull (#DAB 018) at about 16:00. Could not tell what type of mate it had. This bird died while wrapped and waiting for processing.

Left the beach trap out, and the trap over the nest of 018. Am trying to catch its mate. Waited till

FIELD NOTES

Doug Bell

DATE: JUNE 5, 1985

LOCATION: East SAND ISLAND, mouth of Columbia River (Baker Bay, WA), OREGON

June 4 - con't:

dark (23:00 hrs) and went with flashlight to traps. Gulls flew up from colony, even though it's a dark, overcast night. Traps were empty when I arrived, though.

June 5.

Since I'll be picked up at 15:00 by Les, I'm concentrating on trapping near camp (area just east of it) This is where I caught 018 bird. Set trap out on 3 egg nest. Both mates of this pair appear similar: wing tips slightly darker than mantle, red eye rings. Caught the female (019). Could not catch the mate. Set both traps out on other 3 egg nests. Birds of one nest did not go in, female sat next to trap and "incubated" next to nest. Caught a female (020). Mated to bird of same appearance: yellow eye-ring darker mantle and wing tips darker than mantle. Looks like a good "Western Gull". Took eggs of this pair (DAB 020 A-B-C).

My general impression of this island colony is that it is very mixed in regards to gull types. Appears to be about 1/2 and 1/2: Western types and Glaucous-winged types. But it also seems as if every degree of variation in between can be found - birds with light grey backs = primaries, those with light mantles + dark, or black primaries, those with dark mantles and black primaries. Very mixed up. Does not seem that the birds are mating assortively either.

FIELD NOTES

DOUG BELL
DATE: JUNE 5, 1985

LOCATION; East Sand Island, mouth of Columbia River (Baker Bay, WA) Oregon.

Other birds observed:

Cormorants (Pelagic ?), Greater Scaup (large rafts), Mallard (pairs), Canadian Geese (6), Bald Eagle - ad., seen sitting on piling in Baker Bay, drying its' wings cormorant style. Watched it sit for about 6 min., it then lumbered off - only to be dive-bombed by 2 Caspian Terns. Bonapart's Gull (flock of 25) seen upriver. Song Sparrows (few) on island - in pines. Barn Swallow nest w/eggs in small cement "pill box". Carrion Crow - pair with fledglings (simps) in pines. Adults cawed me constantly.

Les picked me up from island at 15:00. Picked up at east shore - went well, with using skiff + hip-boots. Tide near high.

16:00 → onwards

Preparing the 2 birds I caught, brought them with off the island live.

Spent night at City Center Motel, Ilwaco. Raining hard. ~~[illegible]~~ [illegible]

FIELD NOTES

Doug Bell
JUNE 6, 1985
June 7, 1985

LOCATION: variable; Oregon & Washington

Drove from Ilwaco, WA. back to Astoria Oregon for money & gas. Stopped at Fort Columbia. Then called Willapa Natl. Wildlife Refuge. Headed back through Ilwaco, went to Lighthouse at ~~Cape~~ North Head. Raining, no pouring. Windy. Then on to Willapa Nat. Wild. Refuge Headquarters. Missed it though, went by mistake to point Leadbettee. Finally made it to Refuge. (16:15). Ulrich Wilson not in, but waited for his return. Met him at 19:30. Discussed plans. He suggested I contact Steve Speich – as this group will be going out to the islands in Willapa Bay. Spent night (raining) at motel in South Bend, WA.

JUNE 7, 1985.

Drove to Olympia. Met Steve Speich and Steve Jeffries at Marine Mammal Headquarters (on 47th St – at Bay, off of East Bay Drive). Made numerous contacts. Went to Port of Olympia to trap Gulls. Got permission from MR. Jim Jackson.

17:00 – at Port of Olympia – trapping in field of ~~dreg~~ dredgings behind the port log stacks. Behind ~~[illegible]~~ Marina. A portion of this marina is new, yet to be filled. 3 gull nests on piling here. In dredge field there are about 15 pairs of gulls. Most birds here resemble more the "Glaucous-winged". But variation exists. Of 28 birds in dredge field, 20 have lt. grey mantles = grey of wing tips, 5 have grey of mantel lighter than tips, and 3 have very dark wing-tips (relative to classic Glaucous-wings. These 3 birds are paired with normal gull.

FIELD NOTES.

Doug Bell
June 7, 1985

LOCATION: PORT of OLympia, Olympia, WA.

WEATHER: rainy at first, clearing.

TIME: 1700 - 18:30

Set out 2 traps, one on 3-egg nest, one on 1-egg nest. Birds went into both (this is the dredge-fill area)(behind the log stacks and marina). Ran out, caught only the closer bird (DAB 022 - ♂). Reset trap. After about ½ hour, its mate went into the trap (DAB 023 - ♀). Took the 3 egg clutch (DAB 021 - A - B - C). Both birds similar in Eye-ring, legs, mantle & wing tips.

Other areas gulls nest in Port of Olympia are: old yellow wharehouse roof, on some gravel areas amongst log piles. Across harbor (westward side) on old pier and small grassy knoll-like island, big flat bouys in harbor.

Also found Killdeer Nest w/ 4 eggs, saw an adult Killdeer with one fledgling. Water Pipits (3) in grassy areas around marina.

Spent evening with Steve Speich at home. Stayed in Motel, few mi. N. of Olympia. Prepared Birds.

FIELD NOTES

DOUG BELL
DATE: JUNE 8, 1985

LOCATION: Port of Olympia, Olympia, WA.

TIME: 13:00 —

Spent first few hours finishing birds and getting caught up on correspondance, field notes.

TIME: 17:00 — 18:00 set trap out over 3 egg clutch in dredge-spill field between log stacks and marina. Gulls alarmed at my approach. Settled back down — but they are cautious. Most birds just standing around, not even desparate to sit on nests. Very warm (70's), sunny. Paired birds showing choke displays, food begging & transfers (one seen — shrimp?). Two males squared off with uprights, whereupon an incubating female jumped off her nest and ran over to her mate — giving beg call & head toss. Males brake off, went to respective mates. Both mates gave begging calls & movements (Group stimulation). Two other males seen fighting. Actual bill to bill grappling with wing beatings and foo~~t~~t pushing and kicking. Each bird tried to grab and subdue ~~to~~ the others' bill. One bird had the upper hand and seemed to hold the others' bill, sometimes the head, almost the whole time. The underdog kept trying to jump up, hit back with wings and push off with feet. If he did ~~ocaisst~~ occasionally get his opponents bill, it was not for more than a few seconds. But he kept trying. The two birds were locked bill to bill for over 4 min. Underdog finally broke away and flew off, with pursuer. Winner r~~et~~ circled, returned to spot. No real after reactions, other than erect standing and looking around. Looser may have also returned. An imm. Red-Tail flew over colony. Great

Doug Bell
June 8, 1985

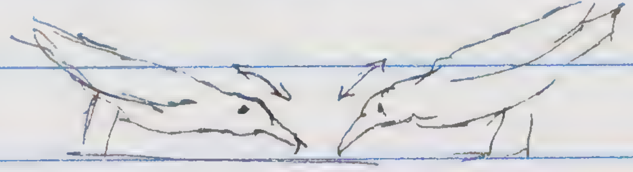
Field Notes

Location: Port of Olympia, WA.

17:30 - 18:30

alarm. Gulls all flew off. Some pursued & dive-bombed hawk, along with crows. Persistant chasing.

At the spot where the intense fight erupted, three birds are ~~chok.~~ choking and giving the (a) mew call - sounds like high-pitched mew - meew - meew. Two birds will then sit next to each other, face to ~~face~~ face, then bill. Third bird sits off ca. 1 yd. away, but either seems to be trying to join in with choking & mewing, or is threatening? The two close birds are also standing next to one another and furiously shaking their heads, pointed, or rather, slanted with body head down.



Head movement is fore & aft. They do this over many areas. Lots of walking around - deciding on nest spot? Also choking over territory. Pair w/ 3 eggs too wary of trap. Other pair copulating.

18:30 - 19:00 Switched trap to nest with 1 egg. Went over to marina to look around. While doing this, saw one of the gulls finally enter the trap. Drove back to the ditch, tried sneaking up & charging trap. Didn't work. This pair of birds is also too wary. The female on the nest ran out of the trap right away. Gave up trying to trap here. Drove around port - checking docks, etc. Scared a Pigeon Guillemot out from under one dock. It made a high-pitched wheezing sound.

FIELD NOTES

DOUG BELL
JUNE 8, 1985

LOCATION: WEST BAY DRIVE, Olympia, WA.

HABITAT: Industrial, dikes, mud, piers.

TIME: 19:00 - 21:00

Drove from Port of Olympia around bay to west side of bay. Set trap out over a 3egg nest located on an old, meter-wide pier. This pier hosts about 15 gull nests and about 100 various-age gulls. A small grassy island near this pier supports about 8 pair. Both pier & island are across the bay from the main loading dock of Port of Olympia. The old pier which I'm trapping on also has two old boat docks, on which two Great-blue Herons are standing. A pair of Pigeon Guillemots also seems to be nesting here. Have also seen Mallards, Barn Owl, Starlings and Belted Kingfisher fly by. Robins, Varied Thrushes in neighborhood. Cedar Waxwings too! Trapping unsuccessful.

Of about 30 birds, 2 had darker wing-tips than the others (these were not mated pair). Others fit "Glaucous-winged" mould.

Of three nests observed on the section of pier, 2 nests had 3 eggs each; one nest 1 egg.

FIELD NOTES

DOUG BELL
JUNE 9, 1985

LOCATION: West Bay Drive, Old dock & pier
next to small island. across from Port
of Olympia. Olympia, WA.

TIME: 14:00 - 15:30

Talked to Steve Speich this morning. Now trapping on old pier again. Set trap over different 3-egg nest from yesterday. After an hour still no luck, moved entrance to trap around. Birds refused to go in. Set second trap over the 1-egg nest. A bird went in almost immediately, but ran out when I rushed. Tried again - same thing. This bird is desparate to get into nest though. Moved entrance of trap around towards my direction. This time it worked - caught the bird - a ♀ (DAB 024) - she has an egg in her cloaca!

Osprey flew over while trapping.

Field Notes 6/1[illegible]

Nest 1 A 82
B 86
C 84

Nest 2 A 77
B 88
C 87

St. Regis Plant, Port of Tacoma, WA.

9:35 Trapping on rooftop of [illegible] Plant. Set trap out over 3-egg clutch on corner where one bird was banded and trap over another 3 egg clutch. The roof is completely littered with debris that the gulls have [illegible] brought up. Thousands of bones – mostly chicken. Next to my nest found another head, with bill, pigeon head & wings. Little bones too. Gulls on same [illegible] roofs ([illegible]) are [illegible]. [illegible]

[illegible] have 3 [illegible]. The [illegible]

9:45 caught one bird – it threw up spaghetti & garbage.
DAB 026

[illegible]

10:30 – moved the trap to 3 egg nest. Another pigeon found.

DAB C28
11:20 – Caught another bird. Threw up chicken wings.

Of 18 birds checked, 15 had primary tips darker than mantle – the tips are [illegible] dark – darker in general than the Olympic birds.

The first year I ~~tried~~ trapping both have wing tips darker than mantle – the ♀ has them only slightly darker, the male [illegible] [illegible] of more [illegible].

FIELD NOTES

DOUG BELL
JUNE 12, 1985

LOCATION: PIER 91, BUILDING 48, PORT OF SEATTLE,
SEATTLE, WA.

HABITAT: Port, Industry, Harbor. Port has large warehouses, upon which gull colonies are located. Colonies atop (at least) buildings 47, 48, 38. Roof tops are quite open, have little opportunity for shade. Large open dock and loading areas for cars.

TIME: 14:30 - 15:15

Set trap out over 3-egg clutch ↙ DAB-031-A-B-C atop building 48. Due to sensitive nature of area, and possibility of being observed, I did not survey the whole roof top. But there are maybe 20-30 nests up here. Caught a light-primaried bird ↙DAB-030. Mate same. Looks like about 1/2 of the birds observed here (8 out of 16) have primary tips slightly darker than mantle. Other half have tips = mantle hue.

FIELD NOTES

DOUG BELL
June 13, 1985

LOCATION: Protection Island (Jefferson Co., WA.) (approached from Walla Walla College's Marine Station @ Anacortes), WA.

HABITAT: Substantial island - eastern spit ~ 40 acres - sandy soil, grass, driftwood - near sea level. Table bluffs w/sand banks - high grassy hills & pine forest.

TIME: 14:00 - 18:00

WEATHER: Lt. overcast, some drizzle (mist) but clearing.

Dale Lent is manager of Marine Station.

Met Charlie Amaloner & Joe Galusha at Marine Station.
Went out on boat w/ Jim Nessker, Doug
(18' Boston Whaler, w/ 90 hp outboard) to Protection Island.
Met Nigel Ball and Robert Opps.
wife: Maggie, daughter Hazel.
Went to east sandy spit. Helped Jim set up speakers at blind. Lots of gulls - 11,000 total on island. 4-5,000 out foraging at any time. Primary tips vary from lt. grey (= Mantel) to darker grey to almost black (seen in a few birds). Saw at least 3 pairs where one bird had dark or blackish primary tips and its mate had grey tips.

Other birds: Carrion Crows (American & Northwest)
Caspian Tern (1)
Pigeon Guillemots (nesting in rocks of harbor entrance).
Savannah Sparrows (3) - yellow lores, pink legs
Stripped head, spotted breast, raspy twitter

Oystercatchers - 5 birds - 2 doing a head down bill-open side-by-side run. Voice quick stacatto

Barn Swallows
Violet Green Swallows
Song Sparrows
Cassin's Auklet Burrows in bluff cliffs.
Pelagic Cormorant
Raven

FIELD NOTES

DOUG BELL
JUNE 13, 1985

LOCATION: PROTECTION ISLAND, WA.
(Jefferson Co.)

Ring-necked Pheasants, Starlings, Double-crested cormorant, Willow Flycatcher, Amer. Goldfinch. Brown-headed Cowbirds, Rufous-sided Towhee, Marsh Hawk (♀)

Walked around island. Gulls nesting even on sand bluffs, cliff. Met John , the caretaker. On so. side of island - respectable gull colony, Pelagic & Double-crested Cormorants nesting on sandy cliff. Saw a WHITE GULL that the caretaker John had mentioned. It was sitting atop a shack on stillts at, or in the gull colony up on the bluffs & along the road (so. side). Only saw the gull for a second - looked like a damn pigeon! Grabbed my camera - but when I looked up it was gone. Nigel Ball did say this bird has a white mantle, black-tipped primaries and a spot of black on the tail. Supposedly this bird has been around a couple years.

19:30 - 21:00 -

With Nigel & Doug in "spit" colony (the spit on eastern end - harbor, etc) trying to trap. Nigel pointed out some very dark-mantled birds in the colony - two of them, with very black primary tips.

On ride home we scared up a Nighthawk.

There is a Bald-Eagle nest near our trailor. It was successful last year - but failed this spring

FIELD NOTES

DOUG BELL
JUNE 14, 1985

LOCATION: Protection Island, WA.
(Jefferson Co.)

TIME: 8:00 - 12:00

Trapping gulls on plateau colony - up on bluffs and along road near cabins on south side. Caught ♀ (032) off 2-egg clutch. Mate (♂) looked similar - would not go in trap. Caught a (♂) 034 on a 2-egg clutch in another trap at the same time. Mate unknown. Caught a ♀ (036) off a 1-egg clutch. Mate unknown.

Saw a pair of Harlequin Ducks on way back to mainland.

LOCATION: Deception Pass, WA. ~~(Skag~~ JUNE 15, 1985
(Skagit Co.) to and thru
San Juan Islands, (San Juan Co.) WA.
WEATHER: Clear, sunny, warm.

Underway with Robert Opp and Jim Nessler in the 18' Boston Whaler for a tour of the San Juan Islands. We headed due west out of Deception Pass to Colville Island, located off the south-east end of Lopez Island. Colville I. is a former study site of Walla Walla's. Colville is a relatively small island, ca. 500 yds x 200 yds. Very steep, rock sides which make landing difficult without special preparations. The island hosts maybe 1000 gulls. Pelagic Cormorants were also nesting on it. We then headed around the SE end of Lopez Island. Near Pt. Colville saw feeding flocks of Glaucous-winged Gulls, Sabine's Gulls, Pigeon Guillemots, Pelagic Cormorants and Cassin's Auklets. In Watmough Bay (Lopez Island) we observed an imm. Golden

FIELD NOTES

DOUG BELL
JUNE 15, 1985

LOCATION: SAN JUAN ISLANDS.
San Juan Co., WA.

Eagle flying accross the bay. It perched on a snag, alowing our close approach by boat. We then headed thru Lopez Pass to Lopez Sound, landed on State Park at Frost Island. Then went by boat again around Frost I, landing at Spencer Spit. Short walk (Killdeers, Crows). Back into boat, short rest for lunch while floating near Flower Island. This island is a very small rock - hosts ca. 100 Glaucous-winged gulls and a smattering of Pigeon Guillemots. From Flower I. we then went around north end of Lopez I., thru Harney Channel (to our south - Shaw I; to our north - Orcas I.), West Sound, Pole Pass (between Orcas I. & Crane I.), almost into Deer Harbor (thinking it was Friday Harbor), then west to San Juan Channel and south to Friday Harbor (on San Juan I.). Robert said Friday Harbor has expanded since he was last there — and it has! The marina is large, hundreds of boats, even seaplanes. Lots of tourism. We stopped at Friday Harbor to eat & refuel. Much building activity. Ran into Nigel & Maggie, who had gone there by ferry. After Friday Harbor we cut a straight path thru Upright channel, Thatcher Pass and on into Rosario Strait. In the middle of the strait, due east of South end of Decatur I., we visited Bird Rocks. These were a group of a few, small rocks - inhabited by about a few hundred Glaucous-winged Gulls. Brandt's Cormorants' nests on this rock were inactive (6 nests?). Then on to Williamson Rocks, in Rosario Strait due West of Langley Point (nr. Deception Pass). Also ca. 300 gulls on these small rocks.

FIELD NOTES

DOUG BELL
JUNE 30, 1985

LOCATION: ALCATRAZ ISLAND, SAN FRANCISCO BAY, Calif.
WEATHER: Clear, sunny. Wind ~ 10-15 mph.
TIME: 12:00 - 16:00

Maren and I did a general survey of the island. Disturbance of the birds is very high — gull chicks of all ages from <1 week old to about 4 weeks of age are present all over the island. It appears that most chicks are about 1/3 gull-size, and can run quite well upon our approach. The cistern-area has the most advanced chicks, with birds being 1/2 - 3/4 gull size. Atop the industry building I counted at least 38 chicks, with one or two birds still possibly incubating. 3 nest in the rubble area and along the walkway by the Power House had eggs (2-3). 2 nests on the Parade Grounds also had either incubating or brooding adults on them.

Collected 2 dwarf eggs from the nest that we had at first (4 weeks ago) thought was a Heerman's Gull. These eggs are definetly from a Western Gull's nest. Also collected a single egg from a nest that had two 3-4 week old chicks in it. Picked up 2 dead gulls too. One 038 was smelling quite rotton and was infested with maggots, the other 039 was fairly dried out and must have been dead for quite a while. All the above eggs & birds collected were found along the western perimeter south of Industry Building.

Other birds: 1 Heerman's Gull on I.B, 3 Heerman's flying. Brancher Black-crowned Night Herons (2 adults, 3 juv. (separate nests). Barn Swallows, fledgling House Finch, House Finch nest w/eggs, Annas Hummingbirds, White-crowned Sparrows ~~sig~~ singing. Least Turn seen on boat ride over to S.F. Juv. & Sub-adults West. & Calif. Gulls @ Aquatic Park, S.F.

FIELD NOTES

DOUG BELL
JULY 3, 1985

LOCATION: Alcatraz Island, San Francisco Co., Calif
WEATHER: warm, sunny, light wind.
TIME: 10:00 AM – 14:00

With Bob Jones trapping gulls. Surveyed cistern and Industry Building areas. No noticeable changes from 7/1. Gulls easily disturbed. Went to Parade Grounds and searched for nests with eggs. Found 3 nests – one with 3 eggs and 2 with 2 eggs each. Chicks were present overall – found one nest with chicks < 1 wk. old. Other chicks ranged from 2 – 6 weeks in age. Set trap out over 3 egg clutch. Observed pair (both good Western's) cautiously walk around trap – one almost went in, but stopped in doorway. Nibbled trap with bill. The two birds stood near the trap for about 1 hour. Then one bird hopped up on top – sat down on roof of trap – as if "incubating". I re-centered the trap over nest, positioning nest closer to doorway. About 20 min. later one bird went in. Caught it (DAB 040 – ♂). We also picked up one dead adult (DAB 041) and one dead chick (DAB 042). Parade Grounds

Saw an adult, breeding plumage Glaucous-winged. Observed it clearly – it circled over parade grounds and main building a couple times. It had wing tips that were only slightly darker than the mantle.

FIELD NOTES DOUG BELL

July 5, 1985

LOCATION: Sugarloaf Rock (on beach just ashore from this rock), Cape Mendocino, Humboldt Co., California.

WEATHER: Low fog, but clearing.

TIME: 14:00 → sunset

Maren and I obtained permission from the property owner: Mr. Joe Russ, Ocean View Ranch, Ferndale, CA. 95536, to go on to his land west of the road and head for the beach just east of Sugarloaf Rock. Hoards of Cliff Swallows nesting under the bridge of the highway. Barn Swallows, Brewers Blackbirds, Northern Orioles at Joe Russ's house & ranch yard (Ocean House on topo map). House finches, Am. Goldfinches, White-crowned Sparrows on hillsides behind beach. Lots of gulls wafting about. On Sugarloaf Rock: Western Gulls (hundreds), Cormorants, Pigeon Guillemots abound. Strangely enough, no Puffins were seen. I positioned myself on the beach just south of Sugarloaf Rock, 410 using #9 skeet loads. No gulls flew within range in over an hour. I noticed the gulls kept flying to the mouth of the creek to rest & bathe. So I went down there. This creek outflow is ca. 1 mi. south of Sugarloaf Rock. The gulls seem to search it out for a preferred water sauce. After a couple misses, I managed to ding a very small ad. ♀ in the wing (DAB 043). She dropped into the surf - I was able to grab her only ~~go~~ after going in up to my waist. Spent the late afternoon preparing this bird.

We ate at the Yellow Rose in Petrolia. Camped on level ground just behind the beach SE of Sugarloaf Rock (ca. 1/2 mi. away from the rock). Lots of Turkey Vultures & Red-tails out here.

FIELD NOTES

DOUG BELL
JULY 6, 1985

LOCATION: Sugarloaf Rock, Cape Mendocino, Humboldt Co., CA.
TIME: Sunrise → 13:00

Woke up late. Out of camp by 8:30 AM. I headed with gun directly to creek mouth, where ca. 20 gulls were resting. Low tide. As these birds took off they drifted over my position. A couple shots didn't bring any birds down, although I think some were indeed peppered. Soon about 20 more birds drifted in. Took another shot at one which I thought was an adult. Hit it - it opened its bill, but did not emit any noise, flew startled first away, then back across my path. Second shot hit it again, but the gull flew on almost 100 yards out into the surf. Lost sight of it, but soon saw a dead gull, belly up, floating in surf. Had to skip across 100 yards of low exposed rock to get to the surf and retrieve the bird - a gull (♂-DAB 044) in probably it's last year of sub-ad. plumage. Bright yellow bill w/red spot, slight black on tail, some brownish-grey on mantle. No brood patches. Prepared this bird.

13:00 → 17:00

Marea and I drove thru Petrolia, Ettersburg on way to Shelter Cove. Shelter Cove was a real letdown. Too many people, campers, airplanes, boats and subdivision style roads criss-crossing the mountains. Shelter Cove itself is beautiful. Lots of imm. & sub-adult gull hanging around the cove. No breeding sites, though. On drive back up the western side of Kings Range we saw a Purple Martin. Very nice views as it sallied about a canyon.

FIELD NOTES

DOUG BELL
JULY 26, 1985

LOCATION: ALCATRAZ ISLAND, San Francisco Co., Calif.

WEATHER: Warm, sunny. Light wind.

With Bob Jones collecting dead gulls on the island. Disturbance level of adults still very high. Majority of chicks are 3/4-grown to fledged. Some nests have ca. 2-3 week-old chicks, but these are isolated cases. Lots of fledged young resting on shore and in water of northeast side (point) of the island. Rough numbers of chicks are as follows (includes fledged birds in water):

Powerhouse: 10
Cistern: 45
Industry Building: 32
North-east point & water: 82
Rubble area & cliffs west of Parade Grounds: 25
Cell House Roof: 27
Dormatory: 15.

West slope of Island (next to Industry Building) 69
Barker Beach Cliffs 14
Parade Grounds 48

Did not see any Glaucous-winged Gull this time. One Heerman's Gull sighted flying past the west shore.

FIELD NOTES

DOUG BELL
AUG. 3, 1985

LOCATION: Sailed from Pt. Richmond to the Farallone Islands and back (S.F. Co.), Calif.

WEATHER: Morning clear & sunny; afternoon foggy. Wind, picking up towards afternoon, 8 mph.

Went to South-East Farallon Island to pick up gulls that PRBO was saving for me. Teya McElroy and Jay were along. Harry Carter was on the island doing the collecting for me. He collected 20 birds - those without lables were picked up freshly expired at one of the "botulism" springs between 25-30 July 1985; and those with lables were picked up at the same spring on given date listed. Birds with slit throats were picked up live, bled, and sacrificed. Harry also sexed the birds, and took one leg from each one for another investigator. Unfortunately, he did not label his birds!

I was able to go onto S.E. Farallon. Lots of gulls still on nesting territories. About 3/4 of the young gulls ~~are~~ that are still on territory are nearly fledged, other 1/4 of young vary in age from 3 weeks to fledging. Pelagic & Double-crested cormorants abound. Calif. sea lions & Elephant seals on many rocks. One Northern Fur seal spotted.

Pelagic birds seen during trip:

Lunda cirrhata Tufted Puffin (1)

Cepphus columba Pigeon Guillemot: scattered birds

Uria aalge Common Murre: Most in adult-fledgling pairs, scatterd pairs out on open sea.

Puffinus griseus Sooty Shearwater: large foraging flocks (≥ 200 birds) seen on approach to Golden Gate. Easily >1000 birds seen.

Brown Pelican: flocks of ~ 20 seen around Cliff House.

Field Notes

Doug Bell
Aug. 22, 1985

LOCATION: Tomales POINT, Point Reyes Penninsula, Marin Co., Calif.
WEATHER: Sunny, warm.
TIME: 11:30 – 14:00

With Bob Jones on beach just north of McClure's Beach – we're walking the beach with 410 and 16 Gauge guns. Looking to collect adult gulls. Slim pickens though. Very few birds flying by, and when they do, they are decidely out of range. Only a few juveniles pass within "spitting" range. Needless to say, we did not shoot these. We shot at a total of 3 adults, but did not bring them down. This beach was covered with tracks of racoon, fox, skunk. Also appears to be a good resting spot for Brown Pelicans, as their tracks were all over the place. We saw multiple flocks of > 20 birds/flock of Brown Pelicans. Perhaps + 200 birds in all. These flocks were 90% immature! May also have seen a gliding Peregrine.

Also went to the West Marin Sanitary Landfill, owned by Elmer Martinelli (Sons LeeRoy & Stan), hm. 663-8519, dump 663-1145. Lots of gulls, but we could not get ahold of Elmer to obtain permission to shoot. The dump is about 1/4 mile N. of Point Reyes Station, on Hgwy. 1.

Field Notes

Doug Bell
Aug. 23, 1985

Location: West Marin Sanitary Landfill, 1/4 mi. N. Pt. Reyes
Station, Marin Co., Calif

Time: 12:00 - 13:30

Weather: Hot, sunny.

Obtained permission to shoot gulls. Only about 30 birds were mulling about the dump. Approached the birds up a dump-slope. As they flew I fired the 410 aux. 38, completely missed one bird. Then shot a 410 cartridge, dropped one adult. Fired again, missed. After that, there were no more birds left hanging around. We waited at the dump for 1½ hours, but the few birds that straggled in were, and remained, up too high. Got only one more shot at a bird, which I missed. Afterwards, we drove up Tomales Bay. Out on the Bay there were large numbers of gulls moving north. It was high tide, and most birds were out on the open water. Large numbers of gulls and egrets were resting on marshland just west of where Hwy 1 bends inland towards Tomales and along the slough.

Species: Larus occidentalis
Location: Alcatraz Island, SF Co., CA.
004 Wt. 995 g
Skel. date: 15 May 1985
+ Sex: ♀
Lt Wing Winglength: 39.6 cm (worn) Left Wingchord:
Primary length: 10: 27.7 cm
9: 28.0 cm (28)
8: 27.0 cm (27)
7: 26.2 cm
6: 24.9 cm
5: 22.8
Tail length: 14.8 cm
Tarsus: 5.99 cm (Left) Middle Toe: 5.78 Inner Toe: 4.32
Outer Toe: 5.68 Hallux: 0.57 cm
Head Length: 12.20
Bill Length: 5.21 cm
" " (post nares): 3.28 cm
Bill Width: 1.14
Bill Depth: gonys: 2.08
ant. Nares: 1.98
Post. Nares: 1.89
Brood Patches: 3 brood patches.
Bill, eyering color: --
irides: —
legs: —
Remarks: It looks like this bird died due to an "exploded" egg/oviduct (egg bound - but w/out the shell.

D. A. Bell

1986

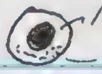
Catalogue #067-121

Doug Bell
1986

Catalogue

5 May 1986

Alcatraz Island, S.F. Co., Calif.

172388
SKELETON ♂ Larus occidentalis. Eyering, bill deep yellow. Legs pale
067 pink. Irides - pearl w/ magenta flecking ventrally 

Lft. wing + Adult plumage, except for tail - 12 largely white rectrices except
for darkish quills over proximal 2/3 (9 quills). One rectrix has
dark over long. half of barbs. Wing chord: 132.7 cm Wt. 1,040 gms.
Protruding keel, very little meat on synsacrum.
Stomach: 2 pinchers of an invert.
Collected by hand - has broken wrist. No brood patches.
Rt. T: 16.0 × 11.5 × 10.0 mm L. T: 16.0 × 9.5 × 9.0 mm. Tissues taken: MLHK.

30 May 1986 - Alcatraz I., SF Bay, CA

172389
068 ♀ Larus occidentalis Wt = 972 g (1,090-1188 gms)
SKELETON + L WING cm L Wing: 39.4, P° 10: 27.2 9: 27.8 8: ~~27~~.27.4 7: ~~26.8~~ 26.5 6: 24.9
5: 23.1. Tail: 14.9 Tarsus: 6.24 cm Bill: 4 Gonys 1.94,
ant. Nares: ~~1.95~~ 1.99 Post Nares. 1.92, ~~E~~. Culmen 5.27. Bill width 1.326
Head 11.95. Legs: Vinaceous (No 5.) Bill: Orange yellow. (17)
Eye ring: Orange yellow 17, Irides: sulphur yellow. Tissues: LHMK
3 Pictures: 2 heads, 1 body. 3 brood patches. Mate of 069
Stomach empty. Left ovary: 19 ova > 3 mm ⌀

172390
069 ♂ Larus occidentalis Wt. 1150 gms
SKELETON + L. Wing L. Wing: P° 10 - 29.4 9 - 29.8 8 - 29.2 7 - 27.4 6 - 25.7 5 - 22.8
Wing: 43.2 Tail: 16.4. Tarsus 6.39 Bill: Culmen: 6.385 Width: 1.595
Gonys: 2.16 ant N: 2.255 Post N: 2.28 Head: 13.37
Mate of 068. Legs: vinaceous (5), Bill & Eye ring:
Orange yellow (17) Irides: Sulphur yellow Tissues: LHMK
Trapped off 3 egg nest. Testes: L: 1.5 × 1.2 × .8 mm
R: 1.55 × 1.0 × .8 mm

Stomach - fish ribs & vertebrae otherwise empty

Catalog Douglas A. Bell

172295

072

SKELETON + Left Wing.

Species: Larus occidentalis Adult
location: Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.
date: June 4 1986
sex: ♀
weight: 1125 g heavy fat
wing length left: 40.0 cm
primary length: #10: 28.5 cm
9: 28.7 cm
8: 28.2 cm
7: 26.3 cm
6: 24.4 cm
5: 22.4 cm
tail length: 15.7 cm
tarsus: 6.1 cm Left middle toe: 5.75 cm
head length: 12.45 cm
bill length: 5.6 cm
" post. n. 3.63 cm
bill width: 1.32 cm
bill depth: gonys: 2.13 cm
" ant. n.: 1.96 cm
" post. n.: 1.85 cm
brood patches: 3
bill + eyering col: orange/yellow #18
irides: straw yellow # 56 hardly any, sparse pigment burnt umber (23).
leg: flesh pink #5
remarks: left ovary with grapes, 3mm Φ
Stomach: fresh fish scales + ribs, vertebrae (small).

Catalog Douglas A. Bell

073 Species: Larus occidentalis, Adult.

location: Sugar loaf Rock at Cape Mendocino, Humboldt Co., CA.

SKEL. + RT. WING date: June 4th 1986

Sex: ♀ left ovary w/many small ova.

weight: 960g moderate fat.

wing length: 38.1 cm

primary length: #10: 27.4 cm
9: 27.2 cm
8: 27.0 cm
7: 25.8 cm
6: 24.3 cm
5: 21.4 cm

tail length: 15.2 cm

tarsus: 5.80 cm. Rt. middle toe: 5.75 mm

head length: –

bill length: 5.43 cm

" post. n.: 3.40 cm

bill width: 1.21 cm

" depth gonys: 1.95 cm
" ant. n.: 1.93 cm
" post. n.: 1.85 cm

brood patches: – ?

bill + eyering color: orange/yellow #18

irides color: straw yellow #56 w/burnt umber over lower half (23) moderate

leg color: flesh pink #5

remarks: stomach contents: small fish ribs, scales.

Catalog   Douglas A. Bell

172297

074

SKEL +
RT WING

Species: Larus occidentalis Adult
location: Sugarloaf Rock, at Cape Mendocino, Humboldt Co., CA.
date: June 5 1986
sex: ♀ left ovary - many ova, but all < 1.5 mm ⌀
weight: 1060g heavy fat
wing length: 40.2 cm
primary length #10: 27.9 cm
9: 28.2 cm
8: 27.5 cm
7: 25.6 cm
6: 24.0 cm
5: 23.1 cm
tail length: 15.1 cm
tarsus: (right): 6.05 cm Right mid. toe: 5.45 cm
head length: 12.02 cm
bill ": 5.71 cm
" post. n.: 3.63 cm
bill width: 1.31 cm
bill depth gonys: 1.97 cm
ant. n.: 1.93 cm
post. n.: 1.82 cm
~~brood patches~~: orange/yellow #18
bill + eyering col: straw yellow #56 w/burnt umber, 23 even over lower half. Thon
irides col: fleshy pink #5
leg col:
remarks: Stomach: small muscle shells - preserved
3 brood patches refeathering
ovary.

Catalog Douglas A. Bell

075
SKEL + RT. WING

Species: Larus occidentalis Adult
location: Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.
date: June 5 1986
sex: ♀ (huge ovary) 14 ova >5mm ø; 1 ovum 1 cm ø; 1 regressed ovum; Large infidibulum.
weight: 1040 g moderate fat
wing length: (right) 39.4 cm
primary length: #10 27.6 cm
9 28.2 cm
8 27.9 cm
7 26.7 cm
6 25.0 cm
5 23.5 cm
tail length: 14.9 cm
tarsus (right): 5.01 cm Right middle toe: 5.8 cm
head length: 12.19 cm
bill length: 5.71 cm
" post. n.: 3.63 cm
bill width: 1.25 cm
bill depth gonys: 2.00 cm
ant. n: 2.00 cm
post. n: 1.90 cm
brood patches: 3
bill and eyering col: orange/yellow #18
irides: straw yellow # 56 w/ burnt umber 23 over lower third. Thin.
leg: fleshy pink #5
remarks: Stomach contents: small fish vertebrae (~3×2.5mm) + fish ribs.

Catalog Douglas A. Bell

076 Larus occidentalis ♂

SKELETON +
LFT WING

June 5 1986, Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA
wt (wet): 1500g, heavy fat
3 brood patches
wing length: 43.4 cm
primary length: #10 - 29.4 cm
#9 - 30.04 cm
#8 - 30.05 cm
#7 - 27.8 cm
#6 - 26.0 cm
#5 - 24.8 cm
tail length: 16.4 cm
right tarsus: 6.3 cm
head length: 13.5 cm
bill length: 6.36 cm
bill length post. n.: 3.79 cm
" width: 1.88 cm
" depth gonys: 2.14 cm
" ant. n.: 2.14 cm
" post. n.: 2.06 cm

Bird drifted dead in the water for 2 hrs before washed on the beach.

left testicle: 1.8 x 1.3 x 1.3 cm Rt. testicle: 0.85 X 1.20 cm (after freezing.
Bill & Eyering Color: Orange yellow 18
Irides: straw yellow 56 w/ burnt umber pigment evenly thin over lower half.
Feet: Fleshy pink 5
Remarks: stomach has some fish scales, ribs (short - <2 cm long + a few stones

Catalog Douglas A. Bell

782386

077 Species : Larus occdentalis

SKELETON + RT. WING

location : Sugarloaf Rock at Cape Mendocino, Humbold Co., CA

date : 5 June 1986

Sex : ♂ Left Testis: 1.7 x 1.6 x 1.4 Rt. T.: 1.4 x 1.0 x 1.0 cm (frozen)

weight : 1250 g heavy fat

wing length : (right) : 42.6 cm

primary length #10 : 29.0 cm

" #9 : 30.02 cm

#8 : 28.7 cm

#7 : 27.0 cm

#6 : 25.05 cm

#5 : 23.5 cm

tail length : 16.1 cm

tarsus : right : 6.68 cm ~~Left middle toe: 5.75 cm~~ Right middle toe: 6.45 cm

head length : 13.38 cm

bill length : 6.16 cm

" post. n. : 4.0 cm

bill width : 1.33 cm

" depth gonys : 2.22 cm

" ant. n. : 2.17 cm

" post. n. : 2.09 cm

brood patches : 3

bill and eyering color : orange yellow 18

irides color : straw yellow 56 w/thick burnt umber 23 over lower half.

leg color : fleshy pink 5

remarks : Stomach - small fish ribs

Catalog Douglas A. Bell

078

SKELETON + LFT. WING

Species: Larus occidentalis

location: Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.

date: 5 June 1986

sex: ♀ Left ovary w/5 ova ϕ>2mm

weight: 1115 g Moderate Fat.

wing length: right: 39.0 cm

primary length: #10: 27.5 cm
9: 29.3 cm
8: 28.0 cm
7: 26.8 cm
6: 25.2 cm
5: 24.6 cm

tail length: 15.2 cm

tarsus: right: 5.92 cm Middle Lft. toe: 5.95 cm

head length: 12.13 cm

bill length: 5.50 cm

" post. n.: 3.42 cm

bill width: 1.23 cm

" depth gonys: 1.90 cm
ant. n.: 1.85 cm
post. n.: 1.86 cm

brood patches: 3

bill and eyering color: orange yellow 18

irides color: straw yellow 56 w/ Burnt umber 23 pigment evenly over lowe 1/2, thin.

leg color: fleshy pink 5

remarks: One nearly complete Mus musculus in esophagus; Mus? Fur & bones in stomach.

Douglas A. Bell Catalog

(1339)

079

SKELETON +

Left Wing

Species: Larus occidentalis

location: Mouth of the Little River, 4km SE of Trinidad Head, Humboldt Co., CA.

date: 8 June 1986

Sex: & ♀ Left ovary: 15 ova >1mm ⌀.

weight: 900g moderate fat

wing length: (right) 38.0 cm

primary length: #10: 27.6 cm

9: 27.9 cm

8: 27.7 cm

7: 26.2 cm

6: 23.8 cm

5: 22.6 cm

tail length: 15.0 cm

tarsus: left: 5.47 cm

head length: 11.43 cm

bill length: 5.34 cm

" post. n.: 3.35 cm

bill width: 1.20 cm

" depth gonys: 1.90 cm

ant. n.: 1.85 cm

post. n.: 1.23 cm

brood patches: refeathering

bill and eyering color: orange/yellow #18

irides color: Straw yellow #5 (with thin pigment in lower half)

leg color: fleshy pink #5~~6~~

remarks: crop full of fish (anchovies)

Stomach: few very small fish bones.

Catalog Douglas A. Bell

172294

080 Species : Larus occidentalis

SKELETON +
Left Wing.

location: Mouth of the Little River, 4 km SE of Trinidad Head, Humboldt Co., CA
date : June 8, 1986
sex : ♀ left ovary : 9 ova > 1mm Φ
weight : 1000g heavy fat
wing length : right : 40.7 cm
primary length #10 : 27.7 cm
9 : 28.4 cm
8 : 28.1 cm
7 : 26.7 cm
6 : 25.0 cm
5 : 22.8 cm
tail length : 15.0 cm
tarsus : right : 6.22 cm Left middle toe: 5.80 cm
head length : 11.77 cm
bill length : 5.23 cm
" post. n. : 3.31 cm
bill width : 1.22 cm
bill depth gonys : 2.06 cm
" ant. n. : 2.02 cm
" post. n. : 2.01 cm
brood patches : 3
bill + eyering color : } as previous
Irides : }
leg : }
remarks: fish in the throat (small herring?)

Catalog   Douglas A. Bell

081
Skeleton +
Rt. Wing

Species: Larus occidentalis
location: Del Norte Co. dump, Cresant City CA.
Old Mill Rd
date: June 10, 1986
Sex: ♀ 7 ova > 2mm Φ
weight: 930 g no fat
wing length: left: 39.3 cm / right: 39.2 cm
primary length 10: 27.3 cm   Wing chord: 125.3 cm
9: 28.0 cm
8: 27.2 cm
7: 25.7 cm
6: 24.5 cm
5: 22.5 cm
tail length: 14.3 cm
tarsus: left: 6.05 cm   L. Middle Toe: 5.60 cm   Inner Toe: 4.35 cm
Outer toe: ~~4.55 cm~~ 5.59 cm   Hallux: 0.59 cm
head length: 12.03 cm
bill length: 5.04 cm
" post. n.: 3.55 cm
bill width: 1.32 cm
bill depth gonys: 2.06 cm
ant. n.: 1.99 cm
post. n.: 1.89 cm
brood patches: 3 small
bill + eyering color: orange yellow
Irides: strawyellow, very little pigment
leg: fleshy pink
remarks: breast molt. Stomach - small clumps of mealy matter, small bones, rocks.

Catalog Douglas A. Bell

172282

082 Species: Larus occidentalis

SKEL. + RT. WING

location: Del Norte Co. dump, Crescent City CA.
Old Mill Road

date: June 10, 1986

sex: ♂, left test. 1.6 x 1.0 x 0.9 cm

weight: 1120g no fat

wing length: right: 40.9 cm

primary length: 10: 28.9 cm
9: 29.4 cm
8: 28.7 cm
7: 27.5 cm
6: broken
5: 23.6 cm

tail length: 15.05 cm (only one complete feather / molt)

tarsus: ~~left~~: right: 6.22 cm R. Middle Toe: 6.15 cm Inner Toe: 4.49 cm
Outer Toe: 5.75 cm Hallux: 0.45 cm

head length: 12.85 cm

bill length: 5.77 cm

" post. nares: 3.57

bill width: 1.36 cm

bill depth gonys: 2.12 cm culmen uneven
ant. n.: 2.11 cm
post. n.: 2.22 cm

brood patches: 3

bill + eyering color: orange yellow

irides: straw yellow very little pigment

leg: fleshy pink

remarks: ~~[illegible] [illegible]~~ Stomach: 2 small crab pinchers, bundle of fish ribs up to 7 cm long, much crab shell matter. Stomach about ½ full. Some contents saved.

Catalog Douglas A. Bell

083
Skeleton +
Rt. Wing

Species: Larus occidentalis
location: Del Norte Co. dump, CA.
Crescent City, Old Mill Road
date: June 10, 1986
sex: ♂ (left testicle) R. Test.: 1.30 cm × 0.90 cm × 0.78 cm
L. Test.: 1.40 cm × 0.94 cm × 0.85 cm
weight: ~~10~~ 1160g (light fat)
wing length: right 43.3 cm
primary length: 10: 29.7 cm
9: 29.6 cm
8: 28.3 cm
7: 27.2 cm
6: 25.2 cm
5: 23.8 cm
tail length: 16.2 cm
tarsus: left: 6.37 cm L. Middle Toe: 6.04 cm Inner Toe: 4.36 cm
Outer Toe: 5.91 cm Hallux: 0.51 cm
head length: 12.81 cm
bill length: 5.79 cm
" post. n.: 3.48 cm
bill width: 1.38 cm
bill depth gonys: 2.14 cm
ant. n.: 2.09 cm
post. n.: 2.01 cm (rhamphotheca peeling)
brood patches: 3, small refeathering
bill + eyering color: orange
irides: straw yellow pigment very little dispersed throughout)
leg: fleshy pink.
remarks: Stomach Empty.

Catalog Douglas A. Bell

172267

084
Skeleton +
Left wing

Species: Larus occidentalis
location: Del Norte Co. dump, CA.
Crescent City, Old Mill Road
date: June 10, 1986
sex: ♀ left ovary: 9 ova > 2mm Φ
weight: 960g moderate fat
wing length: 40.6 cm Wing Chord: 132.2 cm
primary length: 10: 28.4 cm
9: 28.7 cm
8: 27.9 cm
7: 26.7 cm
6: 24.8 cm
5: 22.9 cm
tail length: 15.05 cm
tarsus: right 6.18 cm Middle Toe: 5.82 cm Inner Toe: 4.34 cm
Outer Toe: 5.62 cm Hallux: 0.50 cm
head length: 11.84 cm
bill length: 5.16 cm
" post. n.: 3.32 cm
bill width: 1.20 cm
bill depth gonys: 1.99 cm
ant. n.: 1.93 cm
post. n.: 1.78 cm
brood patches: 3 big
bill + eyering color: orange yellow
Iridus: no pigment straw yellow
leg: fleshy pink
remarks: breast molt.

Catalog   Douglas A. Bell

085

SKELETON
+
Rt. Wing

Species: Larus occidentalis:

location: Del Norte Co. dump

Crescent City, CA., Old Mill Road

date: June 10, 1986

sex: ♂ (left test. ~ 1.2mm Φ) destroyed)

Rt. Testis: 1.2 cm × 0.90 × 0.70 cm

weight: 1080g light Fat.

wing length: right 40.4 cm   Wing Chord: 133.5 cm

primary length:	10 :	27.2 cm
	9 :	28.5 cm
	8 :	27.4 cm
	7 :	26.5 cm
	6 :	25.0 cm
	5 :	23.4 cm

tail length: 15.08 cm

tarsus: right: 5.95 cm   R. Middle Toe: 6.24 cm   Inner Toe: 4.54 cm   Outer Toe: 5.78 cm   Hallux: 0.53 cm

head length: 12.81 cm

bill length: 5.95 cm

" post. n.: 3.71 cm

bill width: 1.36 cm

bill depth: gonys: 2.22 cm

" ant. n.: 2.15 cm

" post n.: 2.07 cm

brood patches: 3

bill + eyering color: orange yellow

Irides: straw yellow, moderate pigment in lower half

leg: fleshy pink

remarks: breast molt   Stomach Empty.

Catalog Douglas A. Bell

172264

086
Skeleton +
R. Wing.

Species: Larus occidentalis
location: Del Norte Co. dump
Crescent City CA., Old Mill Road
date: June 10, 1986
sex: ♀ left ovary ~ 35 ova > 2mm ϕ
weight: 1010g heavy fat
wing length: left 39.5 cm Wing Chord: 130.4 cm
primary length: 10 : 27.4 cm
9 : 28.2 cm
8 : 27.7 cm
7 : 26.6 cm
6 : 24.1 cm
5 : 22.7 cm
tail length: 15.08 cm
tarsus: left: 6.50 cm L. Middle Toe: 5.98 cm Inner Toe: 4.39 cm
Outer Toe: 5.89 cm Hallux: 0.50 cm
head length: 12.23 cm
bill length: 5.63 cm
bill length post. n.: 3.35 cm
bill width: 1.36 cm
bill depth gonys: 2.12 cm
" ant. n.: 2.06 cm
" post. n.: 1.91 cm
brood patches: 3
bill + eyering color: orange yellow
irides: straw yellow, no pigment
leg: fleshy pink
remarks: breast molt Stomach: full with "fish fillet" + small fish ribs + small piece 8X8X3mm piece of clear sharp glass.

Catalog Douglas A. Bell

170236

087 Species: Larus occidentalis

SKELETON + RT. WING

Location: Coos Bay nr Coos Head, Coos County, OREGON
date: June 12, 1986
sex: ♀ L. ovary w/ ~25 ova > 2 mm Ø.
weight: 910 g heavy fat
winglength: left: right: 40.02 cm
primary length: 10: 28.4 cm
9: 29.0 cm
8: 28.3 cm
7: 27.0 cm
6: 25.04 cm
5: 23.3 cm
tail length: 15.08 cm
tarsus: right: 5.50 cm Rt. middle toe: 5.57 cm
head length: 11.94 cm
bill length: 5.68 cm
" post. n.: 3.80 cm
bill width: 1.21 cm
bill depth gonys: 1.93 cm
" ant. n: 2.01 cm
" post. n: 1.86 cm
brood patches: 3
bill, eyering color: orange yellow
irides: very little pigment, straw yellow
leg: fleshy pink
remarks: tissue taken out 5 hrs after birds were shot, stored on ice. Stomach contained < 30 small fish vertebrae, small (2mm)

Catalog Douglas A. Bell

088 SKELETON + Rt. Wing

Species: Larus occidentalis
Location: Coos Bay nr Coos Head, Coos Co., Oregon.
date: June 12, 1986
sex: ♂ Lft. Test: 1.50 x 1.20 x 1.00 cm Rt. Test: 1.15 x 1.00 x 0.85 cm
weight: 1250 g light fat.
winglength: right: 43.6 cm
primary length: 10: 29.0 cm
9: 29.8 cm
8: 29.3 cm
7: 28.0 cm
6: 27.1 cm
5: 23.5 cm
tail length: 17.7 cm
tarsus: right: 6.07 cm RIGHT: Inner Toe: 4.49 cm
Middle Toe: 6.18 cm
Outer Toe: 5.93 cm Hallux: 0.60 cm
head length: 12.88 cm
bill length: 5.91 cm
" post. n: 3.61 cm
bill width: 1.49 cm
bill depth gonys: 2.23 cm
" ant. n.: 2.23 cm
" post. n.: 2.11 cm
brood patches: 3 middle one refeathering
bill, eyering color: orange yellow
irides: very little pigm. in lower half, straw yellow
leg: fleshy pink
remarks: body molt.
5 hrs on ice before tissue taken.
Stomach: small fish vertebrae + round (otoliths?). Some
graining matter. Contents saved.

Catalog

Douglas A. Bell

92235

089

SKELETON &
Rt. WING

Species : Larus occidentalis

Location : Coos Bay nr Coos Head, Coos Co., Oregon

date : June 12, 1986

sex : ♂ testes seen, but destroyed.

weight : 1200g Heavy fat

winglength : left : 42.7 cm

primary length : #10 : 29.3 cm
9 : 29.3 cm
8 : 29.3 cm
7 : 27.2 cm
6 : 26.0 cm
5 : 23.9 cm

tail length : 15.09 cm

tarsus : right : 6.56 cm Rt. middle toe : 6.32 cm

head length : 13.22 cm

bill length : 6.00 cm

" post. n. : 3.85 cm

bill width : 1.43 cm

bill depth, gonys : 2.25 cm

" ant. n. : 2.23 cm

" post. n. : 2.15 cm

brood patches : 3 (3rd refeathering)

bill, eyering color : orange yellow

irides : moderate pigm. in low. half, straw yellow

leg : fleshy pink

remarks : 5 hrs on ice before tissue samples were taken. Stomach contains "meal", numerous fish vertebrae, ribs, otoliths (round).

Catalog Douglas A. Bell

[illegible]

090 Species: Larus occidentalis

SKELETON + RT. WING Location: Coos Bay, nr Coos Head, Coos Co., Oregon

date: June 12, 1986

sex: ♂ Left Test: 1.52 x 1.10 x 1.0 cm R. Test. 1.10 x 0.95 x 0.75 cm

weight: 1200g Moderate fat

winglength: right: 41.8 cm

primary length: 10: 28.8 cm

9: 28.9 cm

8: 28.7 cm

7: 27.4 cm

6: 25.05 cm

5: 23.6 cm

tail length: 16.0 cm

tarsus: left: 6.50 cm Left middle toe 6.10 cm

head length: 12.72 cm

bill length: 5.84 cm

" post. n: 4.16 cm

bill width: 1.33 cm

bill depth gonys: 1.95 cm

" ant. n.: 1.95 cm

" post. n.: 1.93 cm

brood patches: 3 small, re feathering

bill, eyering color: orange yellow

irides: very little pigment, straw yellow

leg: fleshy pink

remarks: ~5 hrs on ice before taking tissue.

Stomach empty except for 3 small fish ribs + 2 otoliths.

Contents saved.

Catalog

Douglas A. Bell

192290

091

Species: Larus occidentalis

SKELETON + Rt. Wing.

Location: Coos Bay nr Coos Head, Coos Co., Oregon

date: June 12, 1986

sex: ♀ Ovary (left) with numerous small ova.

weight: 850 g No fat; sharp keel.

wing length: right: 41.0 cm

primary length: 10: 28.0 cm
9: 29.3 cm
8: 28.7 cm
7: 26.9 cm
6: 25.02 cm
5: 23.6 cm

tail length: 15.0 cm

tarsus: 5.96 cm right Rt. middle toe: 5.90 cm

head length: 11.93 cm

bill length: 5.55 cm post. n: 3.31 cm

bill width: 1.22 cm

bill depth: gonys: 2.0 cm
" ant. n.: 1.99 cm
" post. n.: 1.85 cm

Liver: Rt Lobe: 8×3 cm
Lft. Lobe: 5×3 cm

broodpatches: 3

bill, eyering color: orange yellow

Yellow, cheesy inclusions, 2 mm & discs from membranes of thoracic cavity saved. Yellow chunk from wing/pect. girdle joint saved.

irides: no pigment, straw yellow

leg: fleshy pink

remarks: 5 hrs on ice befor tissue taking.

Removed 2 large, yellow, cheesy sack-like structures from both sides of body just internal to the spaces zw. lungs and kidneys. ~~of~~ The structures are sac-like each large. Rt one 8 × 4 cm, Left one 5 × 3 cm. The sacks are closely applied to post boarders of lungs, and along the ventral surface of kidneys. Had to dig sacks out of vertebrae/rib cage and ant. synsacrum (⇒ tumors in air sacs?) Rest of internal organs seem normal. Ovary came out w/ sacs. Preserved in formalin. Stomach: one rib, few otoliths - contents saved.

Catalog Douglas A. Bell

192222

092 Species: Larus occidentalis

SKELETON + Location: Nestucca Spit, Tillamook Co., Oregon

Right Wing date: June 14, 1986

sex: ♂ T: left + right 0.60 cm ⊕ (frozen)

weight: 1280g Good fat

Wing length: left: 41.9 cm

primary length: 10: 28.9 cm

9: 29.7 cm

8: 29.8 cm

7: 28.2 cm

6: 26.7 cm

5: –

tail length: 16.1 cm

tarsus: right: 6.98 cm Right Middle toe: 6.6 cm

head length: 13.23 cm

bill length: 6.25 cm

" post. n.: 3.84 cm

bill width: 1.50 cm

bill depth: gonys: 2.19 cm

" ant. n.: 2.17 cm

" post. n.: 2.11 cm

brood patches: 3

bill, eyering color: orange yellow

irides: – destroyed

leg: fleshy pink

remarks: 6 hrs before tissue was taken.

Kidney worms Stomach – half full w/ fish vertebrae ribs (medium sized) + nereis claws. Preserved.

Catalog D.a. Bell

192223

093 Species: Larus occidentalis

SKELETON +
Left WING

= North Spit, Nestucca Spit State Park, Nestucca Bay
Location: Nestucca Spit, Tillamook Co., Oregon
date: June 14, 1986
Sex: ♂ Left festis destroyed, Rt. T?
weight: 1145g Good fat.
wing length: right: 41.4 cm
primary length: 10: 28.7 cm
9: 29.6 cm
8: 27.7 cm
7: 27.1 cm
6: 25.01 cm
5: 24.0 cm
tail length: 16.2 cm (7 tailfeathers with small black patches)
L. tarsus: 6.502 cm Left middle toe: 6.02 cm
head length: 13.03 cm
bill length: 6.23 cm post. n: 3.70 cm
bill width: 1.36 cm
bill depth gonys: 2.19 cm
" ant. n.: 2.18 cm
" post. n.: 2.14 cm
brood patches: 3
bill, eyering color: orange yellow
irides: strawyellow, very little pigment lower half
leg: fleshy pink
remarks: 6 hrs before tissue was taken.
6 of 12 tail feathers have either small black patches (1.5 x 1 cm) or scattered pigment.
Stomach: contained small fish vertebrae, ribs.

Catalog Douglas A. Bell

10/

172836
D94

Skeleton +
Right Wing

Species: Larus occidentalis
= North Spit, Nestucca [illegible]
location: Nestucca Spit, Tillamook Co., Oregon
date: June 14, 1986
sex: ♂ Left T. destroyed. Right T: 0.95 × 0.65 × 0.45 cm (frozen)
weight: 1110 g Good fat
winglength: right: 41.6 cm
primary length: 10: 28.7 cm
9: 29.1 cm
8: 29.1 cm
7: 27.8 cm
6: 25.8 cm
5: 24.6 cm
tail length: 16.8 cm
tarsus right: 6.10 cm
head length: 12.96 cm
bill length: 6.23 cm
" post. n.: 3.84 cm
bill width: 1.41 cm
bill depth: gonys: 2.31 cm
" ant. n.: 2.24 cm
" post. n.: 1.19 cm
brood patches: 3
bill, eyering color: orange yellow
irides: salmon pink, moderate pigment over lower 3/4th.
leg: fleshy pink
remarks: 6 hrs before tissues were taken
Stomach - has a few old "egg" membranes in it, yellow in color.

Catalog Douglas A. Bell

172837

095

SKELETON +
Right Wing

Species: Larus occidentalis

- North Spit . Nestucca [illegible]

Location: Nestucca Spit, Tillamook Co., Oregon.

date: June 14, 1986

sex: ♂ Left T: 1.1×0.75×0.55 cm - frozen - Right T: 0.75×0.60×0.55 cm - frozen -

weight: 1170 g Good fat

winglength: right: 42.1 cm

primary length: 10: 29.6 cm
9: 29.8 cm
8: 29.1 cm
7: 27.3 cm
6: 26.2 cm
5: 24.5 cm

tail length: 16.1 cm

tarsus: right: 6.84 cm Right Middle toe: 6.40 cm

head length: 13.14 cm

bill length: 5.98 cm post. n.: 3.65 cm

bill width: 1.38 cm

bill depth: gonys: 2.24 cm
" ant. n.: 2.23 cm
" post. n.: 2.11 cm

brood patches: 3

eyering and bill color: orange yellow

irides: straw yellow, very little pigment in lower 3rd

legs: fleshy pink

remarks: 6 hrs before tissue taken

primary tips lighter than normal

stomach: nearly empty - bloody, few fish vertebrae + otoliths, contents preserved.

172215

096 Species: Larus occidentalis

SKELETON + RT. WING. Location: Tillamook Bay Spit, Tillamook Co., Oregon

date: June 16, 1986

sex: ♂ L. T.: 1.26 x 0.98 x 0.90 cm RT.: 1.05 x 0.79 x 0.69 cm.

weight: 1020 g Light fat.

winglength: right: 42.3 cm

primary length: 10: 29.0 cm
9: 29.5 cm
8: 28.6 cm
7: 27.4 cm
6: 25.9 cm
5: 23.8 cm

tail length: 15.4 cm

tarsus: 6.21 cm Left Middle Toe: 5.72 cm Inner: 4.08 cm. Outer: 5.26 cm Hallux: 0.49 cm.

head length: 12.36 cm

bill length: 5.47 cm post. n.: 3.29 cm

bill width: 1.26 cm

bill depth gonys: 2.09 cm
" ant. n.: 2.03 cm
" post. n.: 1.95 cm

brood patches: 3 refeathering

bill, eyering color: orange yellow

irides: straw yellow with heavy even pigment over lower half, light even pigm. upper half

legs: fleshy pink

remarks: breastmolt stomach: small clumps of mealy matter + very small fish vertebrae; less < 1 cm³ material.

Catalog Douglas A. Bell

132216

✓ 097

Skeleton +
Left Wing.

Species: Larus occidentalis
Location: Tillamook Bay Spit, Tillamook Co., Oregon
date: June 16, 1986
sex: ♀ ovary disintegrating
weight: 1040g heavy fat
winglength: 39.2 cm right
primary length: 10: 27.4 cm
9: 28.1 cm
8: 27.4 cm
7: 26.5 cm
6: 24.5 cm
5: 22.8 cm
taillength: 15.3 cm
tarsus: right: 5.85 cm Middle Toe: 5.48 cm Inner Toe: 4.06 cm
Outer Toe: 5.29 cm Hallux: 0.43 cm
headlength: 12.1 cm
bill length: 5.60 cm post. n: 3.50 cm
bill width: 1.28 cm
bill depth gonys: 1.93 cm
" ant. n.: 1.91 cm
" post. n.: 1.86 cm
brood patches: 3 (middle one refeathering)
bill, eyering color: orange yellow
irides: straw yellow, thin pigment dispersed throughout
legs: fleshy pink
remarks: Stomach chocked full of fish remains - including sheets of fish skin. mostly smaller fish (< 4") and a few small mollux shell pieces.

Catalog Douglas A. Bell

172217

098 Species: Larus occidentalis

SKELETON
+
Lft. wing.

Location: Tillamook Bay Spit, Tillamook Co., Oregon
date; June 16, 1986
sex : ♂ L. Test. (dk. gray) 0.49 x 0.80 cm R. T. : 0.49 x 0.70 cm
weight : 1255g moderate fat
wing length : Lft: 45.2 cm
primary length : 10 : 31.4 cm
9 : 32.1 cm
8 : 31.3 cm
7 : 29.8 cm
6 : 28.0 cm
5 : 26.1 cm
taillength : 17.3 cm
tarsus : left : 7.07 cm Lft. Middle Toe : 6.42 cm Inner Toe : 4.78 cm
Outer Toe : ~~4.78 cm~~ 6.22 cm Hallux : 0.58 cm
~~ta~~ headlength : 13.67 cm
bill length : 6.44 cm post. n. : 4.10 cm
bill width : 1.45 cm
bill depth gonys : 2.38 cm
" ant. n. : 2.32 cm
" post. n. : 2.20 cm
brood patches : 3
bill, eyering color : orange yellow
irides : dispersed iride pigm. lower half, straw yellow
leg : fleshy pink
remarks : breast molt. Stomach partially filled with fish vertebrae + ribs. Tape-worm infested intestines. Contents taken.

Catalog Douglas A. Bell

172218

✓ 099 Skeleton + Left Wing.

Species: Larus occidentalis

Location: Tillamook Bay Spit, Tillamook Co, Oregon

date: June 16, 1986

Sex: ♀ 3 sacs on ovary, ≤10 ova ± 2mm ⌀, rest < 1mm ⌀. 1 cheese spot. Organ preserved.

weight: 700g. No fat. Protruding keel, naked synsacrum.

winglength: right 41.9 cm Wingchord: 135.4 cm

primary length: 10: 29.5 cm
9: 29.8 cm
8: 29.2 cm
7: 28.1 cm
6: 25.2 cm
5: 23.7 cm

tail length: 15.8 cm

tarsus: right: 6.17 cm R. outer toe: 5.57 cm Inner Toe: 3.42 cm middle toe: 5.81 cm Hallux: 0.36 cm

head length: 12.24 cm

bill length: 5.38 cm post. n: 3.90 cm

bill width: 1.30 cm

bill depth: gonys: 2.05 cm
" ant. n.: 1.98 cm
" post. n.: 1.82 cm

brood patches: 3

bill, eyering color: orange yellow

irides: even pigment dispersed throughout straw yellow

legs: fleshy pink

Stomach: numerous small clams – saved.

remarks: found fresh dead on mudflats might have been the bird seen gasping lying flat 2 hrs before found, starving, no tissues taken Within body cavity, esp. on mesenteries over lungs & on stomach numerous moldy, yellowish cheesy spots, 5 at left lung ~2mm ⌀, + about 18 smaller spots around it. Several spots on other lung. Isolated spots on intestines. Preserved ovary & some spots in formalin.

Catalog Douglas A. Bell

172819

h → hy Larus glaucescens x [illegible]

0100 Species: Larus .....

SKELETON + LEFT WING Location: East Sand Island, Mouth of the Columbia River Clatsop Co., ~~Washington~~ Oregon.

date: June 18, 1986

sex: ♀ Ovary + Infundibulum. weight: 1060g Mod. Fat.

winglength: left : 39.8 cm

primary lengths: 10: 28.1 cm
9: 28.9 cm
8: 28.6 cm
7: 26.9 cm
6: 24.9 cm
5: 23.7 cm

tail length: 16.2 cm

Rt. tarsus: 5.56 cm Rt. Middle toe: 5.64 cm Inner Toe: 4.13 cm Outer toe: 5.49 cm Hallux: 0.45 cm

headlength: 12.08 cm

bill length: 5.86 cm post. n.: 3.52 cm

bill width: 1.30 cm

bill depth gonys: 1.97 cm
" ant. n: 1.98 cm
" post. n.: 1.89 cm

brood patches: 3

bill, orange yellow eyering color: → vinaceous #3

irides: deep pigment covering 7/8 of the irides

legs: fleshy pink

remarks: breast molt

primary tips: grey Stomach absolutely full of variable matter - looks somewhat like garbage/compost. Couple bones + piece of glass saved.

Catalog Douglas A. Bell

172820

7101

SKELETON + LEFT WING

Species: Larus Larus glaucescens [illegible]

Location: East Sand Island, Mouth of the Columbia River, Clatsop Co. Oregon

date: June 18, 1986

sex: ♀ Left ovary - numerous small ova (< 3 mm ∅).

weight: 1190g

winglength: right: 42.0 cm

primary length 10: 29.2 cm
9: 29.7 cm
8: 28.9 cm
7: 26.8 cm
6: 25.6 cm
5: 24.0 cm

tail length: 15.8 cm

left tarsus: 6.25 cm Left middle toe: 5.85 cm

headlength: 12.95 cm

bill length: 6.04 cm post. n.: 3.71 cm

bill width: 1.31 cm

bill depth gonys: 2.11 cm
" ant. n.: 1.99 cm
" post. n.: 1.91 cm

brood patches: 3

bill, eyering color: orange yellow

irides: ~~salmon~~ straw yellow, pigment thick over lower half.

legs: fleshy pink

remarks: very light primaries

Stomach: full of small fish.

Catalog Douglas A. Bell

Lo/h

172821

0102

SKELETON +
Rt. WING

Species: Larus occidentalis

Location: East Sand Island, Mouth of the Columbia River
Clatsop Co. Oregon.

date: June 18, 1986

sex: ♂? 0? Gonads gone → destroyed. Found one structure that looked like oviduct, another that looked like a spermcord.

weight: 1220g Moderate Fat.

winglength: left: 42.2 cm

primary length: 10: 29.1cm
9: 29.6cm
8: 29.3cm
7: 28.4 cm
6: 26.5cm
5: 24.1cm

tail length: 16.1 cm (left side only)

tarsus: left: 6.28cm LEFT Middle toe: 5.84 cm Outer toe: 5.98 cm
Inner toe: 4.62 cm Hallux: 0.66 cm
Right Hallux - missing nail, short 0.45cm

head length: 13.59cm

bill length: 6.54cm post. n.: 4.01cm

bill width: 1.35cm

bill depth: gonys: 2.17cm
" ant. n.: 2.03 cm
" post. n.: 1.99 cm

brood patches: 3 (middle refeathering)

bill, eyering color: Orange yellow

irides: moder. pigm. over lower half Straw yellow

legs: fleshy pink

remarks: right foot clump. No nail on rt. outer toe.
Stomach contents - small fish vertebrae, 2 lg. black invert beaks, several small white shell-like structures. Contents saved.

Catalogue Douglas A. Bell

172795

0103

SKELETON +
RIGHT WING

[illegible]

species: Larus occidentalis x glaucescens
Location: Westport, Washington, Grays Harbor Co.
date: June 20 th 1986
sex: ♀? Destroyed left ovary - grainy ? [illegible]
weight: 1230g
winglength: left: 41.8 cm
primary length: 10: 28.3 cm light tips
9: 29.0 cm
8: 28.4 cm
7: 27.2 cm
6: 25.0 cm
5: 24.7 cm
taillength: 15.9 cm
tarsus: left: 6.75 cm Left Middle toe: 5.95 cm
headlength: 13.50 cm
bill length: 6.09 cm post. n.: 3.79 cm
bill width: 1.37 cm
bill depth gonys: ~~2.25~~ cm 2.30 cm
" ant. n.: 2.26 cm
" post. n.: 2.17 cm
brood patches: 3, some refeathering on patches
bill, eye ring color: orange-yellow; left: orange yellow; right: orange yellow w. pink
irides: strawyellow w. little pigm. dispersed throughout
legs: fleshy pink
remarks: was hit by a car at W.C.P. Inc., put to sleep. stomach - empty except for a few nereis claws + 1 otolith.
dead 20 hrs before tissue taken

Catalog   Douglas A. Bell

172796

104

SKELETON +
Left Wing

Species: Larus occidentalis
Location: Whitcomb Island, Grays Harbor, Grays Harbor Co., Wash.
date: June 20th, 1986
sex: ♀ Left ovary: ~15 ova >2 mm d weight: 980 g
winglength: left: 39.7 cm
primary length: 10: 27.9 cm dark primaries
9: 28.5 cm
8: 27.5 cm
7: 26.5 cm
6: 24.9 cm
5: 22.8 cm
tail length: 14.8 cm
tarsus: left: 6.01 cm   Left middle toe: 5.75 cm
headlength: 12.39 cm
billlength: 5.53 cm   post. n.: 3.57 cm
bill width: 1.24 cm
bill depth gonys: 1.97 cm
" ant. n.: 1.93 cm
" post. n.: 1.79 cm
brood patches: 3 (big)
bill orange yellow, eyering color: eyering upon capture: flesh-orange yellow
later: orange yellow eyecorners
dull yellow middle
irides: ~~Salm~~straw yellow w. even pigment dispersed over lower half
leg: fleshy pink
remarks: trapped of 3 egg nest
th~~reeg~~rew up fish filets.
dead 20 hrs before tissue taken
Stomach: small fish bones, otoliths, couple
nereis claws. Preserved.

Catalog Douglas A. Bell

172797 h— Lg.

105 Species: Larus occidentalis? x glaucescens

SKELETON + Right Wing.

Location: Whitcomb island, Grays Harbor, Grays Harbor Co., Wash.

date: June 20, 1986

sex: ♂ Left T: 1.40 x 0.95 x 0.90 cm

weight: 1230 g

winglength: 44 cm right

primary length: 10: 30.7 cm
9: 31.4 cm
8: 30.6 cm
7: 29.3 cm
6: 27.7 cm
5: 25.7 cm

taillength: 16.5 cm

tarsus: right: 6.91 cm right middle toe: 6.4 cm

headlength: 13.21 cm

bill length: 6.15 cm post. n.: 3.64 cm

bill width: 1.37 cm

bill depth gonys: 2.22 cm
" ant. n.: 2.13 cm
" post. n.: 2.04 cm

brood patches: 3

orange yellow (dull) with touch of
bill, eyering color: flesh, orange yellow bill

legs: fleshy pink

left: dark uniform pigm. throughout, some straw yellow background
irides: right: lighter " , "

remarks: dead 20 hrs before tissue taken

Stomach: small fish bones, otoliths, invert claws? Sample preserved.

Catalog Douglas A. Bell

172798

106 Species: Larus occidentalis

SKELETON + LEFT WING

location: Whitcomb Island, Grays Harbor, Grays Harbor Co, Wash.

date: June 20, 1986

sex: ♂ Left Testis: 1.1 × 0.55 × 0.45 cm (frozen) Rt. T: 0.70 × 0.30 × 0.25 cm (frozen)

weight: 1200 g

winglength: left: 40.7 cm

primary length: 10: 29.2 cm
9: 29.7 cm
8: 29.1 cm
7: 27.8 cm
6: 25.7 cm
5: 24.0 cm

taillength: 15.07 cm

tarsus: right 6.37 cm

headlength: 12.85 cm

bill length: 5.85 cm post. n.: 3.51 cm

bill width: 1.43 cm

bill depth gonys: 2.13 cm
" ant. n.: 2.10 cm
" post. n.: 2.08 cm

brood patches: 3 beginning refeathering

bill, eyering color: orange yellow

irides: straw yellow thin pigm. in lower 1/4

legs: fleshy pink

remarks: dead for 20 hrs before tissue taken
body molt, Stomach: full of fish scales + nereis? claws. Preserved.

Catalog   Douglas A. Bell

172692

107
SKELETON + RT. WING

Species: Larus glaucescens

Location: Protection Island, South Side, Jefferson Co., Wash.

date: June 24, 1986

sex: ♀ Left ovary disintigrated. Oviduct visible(?)

weight: 1090g   Sparse fat.

winglength: right: 43.2 cm   remarks: Trace of windows only.

primary length: 10: 29.9 cm   Primaries appear juvenile

9: 30.05 cm

8: 29.60 cm

7: 28.1 cm

6: 26.1 cm

5: 24.1 cm

taillength: 16.4 cm   remarks: 3 immature feathers

tarsus: right: 6.81 cm   Rt. Middle Toe: 6.00 cm   Outer Toe: 5.92 cm   Inner Toe: 4.23 cm   Hallux: 0.34 cm

headlength: 13.23 cm

billlength: 6.20 cm   post.n.: 3.91 cm

billwidth: 1.44 cm

billdepth gonys: 2.0 cm

" ant. n.: 2.08 cm

" post. n.: 2.04 cm

brood patches: 3

bill, eyering color: eyering: #4 deep vinaceous
bill: ~~Orange~~ sulfur yellow #57

irides: uniform burnt umber #22

legs: fleshy pink

remarks: trapped off 2 egg nest.

2 eggs taken: 1-A: 78 gms   66.9 x 47.6 cm
1-B: 67 gms   68.2 x 45.3 cm

Stomach empty except for 1 shell and a few feathers. Saved.

Catalog

L8/n

172771

108

SKELETON +
RT. WING

Species: Larus glaucescens

Location: Protection Island, South Side, Jefferson Co., WA

date: 24. June, 1986

sex: ♂ l. testis 1.1 x 1.0 x 0.7 cm r. test.: .85 x .65 x .55 cm

weight: 1160 g Good fat.

winglength: left: 41.5 cm

primary length: 10: 27.8 cm
9: 29.1 cm
8: 28.7 cm
7: 27.2 cm
6: 26.0 cm
5: 24.4 cm

taillength: 15.06 cm

tarsus: right: 6.82 cm left Left Middle toe: 5.95 cm

headlength: 13.25 cm

bill length: 5.77 cm post. n.: 3.73 cm

bill width: 1.35 cm

bill depth gonys: 2.20 cm
ant. n.: 2.14 cm
post. n.: 2.11 cm

brood patches: 3

bill color: orange yellow bill

eyerings: deep vinaceous #4

irides: smoke grey #45 uniform pigment over lower half.

legs: fleshy pink

Remarks: trapped off 3 egg nest Stomach: empty few feathers only.

3 eggs taken: 2A: 84 gms 67.3 x 49.6 cm
2B: 82 gms 69.0 x 48.3 cm
2C: 74 gms 65.1 x 46.9 cm

Catalog Douglas A. Bell

172693

109 Species: Larus glaucescens

SKELETON + Left WING

Location: Protection Island, South Side, Jefferson Co., Wash.

date: June 24, 1986

Sex: ♀ mate of 108 Left ovary: 9 ova > 1.5 mm ⌀

Weight: 980 g Good fat

wing length: left: 40.0 cm

primary length: 10: 27.9 cm
9: 28.5 cm
8: 28.0 cm
7: 26.4 cm
6: 24.6 cm
5: 22.6 cm

tail length: 15.5 cm

tarsus: left: 6.15 cm Left middle toe: 5.82 cm

head length: 12.72 cm

bill length: 5.92 cm post. n.: 3.78 cm

bill width: ~~go~~ 1.18 cm

bill depth: gonys: 2.01 cm
" ant. n.: 2.05 cm
" post. n.: 1.90 cm

brood patches: 3

bill: orange yellow

eyerings: deep vineceous #4

irides: smoke grey #45 with even pigment over lower 1/3, sparce thin pigm. scattered through out.

legs: fleshy pink.

remarks: trapped off 3 egg nest.

mate of 108, threw up small minnows

5 worms in throat ~ 3 cm long — 3 preserved in alcohol (Ascaris?)

Stomach: filled w/fine grainy matter + few fish ribs (small)

Catalog Douglas A. Bell

172694
110
SKELETON + LEFT WING

Species: Larus glaucescens
Location: Protection Island, South Side, Jefferson Co., Wash.
date: June 25, 1986
sex: ♀ Left ovary w >25 grapes ≥1mm ⌀
weight: 970 g Moderate fat
winglength: right: 40.0 cm
primary length 10: 27.6 cm
9: 28.0 cm
8: 26.6 cm
7: 24.7 cm
6: 24.0 cm
5: 23.4 cm
taillength: 15.09 cm
tarsus: right: 6.25cm
headlength: 12.79 cm
bill length: 5.82 cm post.n.: 3.79cm
bill width: 1.26cm
bill depth gonys: 2.05cm
" ant. n.: 2.03 cm
" post. n.: 1.89 cm
brood patches: 3 good
bill: orange yellow
eyerings: right: flesh #5 corner: vinaceous #3
left: has more vinaceous
irides: smoke grey #44 even pigm. over lower 2/3rds.
legs: fleshy pink
remarks: trapped off 1 egg nest. 3A - 83 gms 6.85 x 4.92 cm

Nematodes (2) in buccal cavity. Stomach full of grainy fish-meal.

Catalog Douglas A. Bell

172695
111
SKELETON + Rt. WING

Species: Larus glaucescens
Location: Protection Island, South Side, Jefferson Co., Wash.
date: June 25, 1986
sex: ♀ Left ovary: 4 ova ~ 4mm⌀, 8-12 ova > 2mm⌀.
weight: 885g low fat.
winglength: right: 40.04 cm
primarylength: 10: 29.0 cm
9: 29.5 cm
8: 28.8 cm
7: 27.1 cm
6: 25.09 cm
5: 24.2 cm
taillength: 16.3 cm
tarsus: right: 6.27 cm Right middle toe: 5.5 cm
headlength: 12.05 cm
billlength: 5.47 cm post. n.: 3.45 cm
bill width: 1.20 cm
bill depth gonys: 2.02 cm
" ant. n.: 1.99 cm
" post. n.: 1.87 cm
brood patches: 3
bill: straw yellow
eyering: deep vinecious #4
irides: cream #54 thick pigm. over lower ½
legs: fleshy pink
remarks: trapped on 3 egg nest.
shotgun holes Stomach empty except for a small feather ball in which several pieces of thin glass were found.

Catalog Douglas A. Bell

172696

~~eggs~~
112

SKELETON
+
RIGHT WING

Species: Larus glaucescens
Location: Protection Island South Side, Jefferson Co, Washington
date: June 25, 1986
sex: ♂ Left Testis: 2.1 x 1.2 x 1.0 cm Rt. Testis: 1.6 x 0.9 x 0.65 cm
weight: 1200g Moderate fat.
winglength: 41.8 cm (left)
primarylength 10: 29.8 cm
9: 31.0 cm
8: 30.0 cm
7: 28.7 cm
6: 27.2 cm
5: 24.6 cm
taillength: 17.1 cm
tarsus: left: 6.05 cm Middle toe: 6.00 cm
headlength: 13.45 cm
billlength: 6.40 cm post. n.: 3.98 cm
billwidth: 1.20 cm
billdepth: gonys: 2.15 cm
ant. n.: 2.17 cm
post. n.: 1.99 cm
brood patches: 3
bill color: straw yellow to orange yellow
eyering: upper: vinecious #3
lower: orange yellow
irides: smoke grey ~~&~~ background #45
heavy black pigm. throughout.
legs: darker in lower half
→ fleshy pink
remarks: trapped off 2 egg nest.
head molt, patchy skin visible
Stomach contents: full - grainy matter - consistency of wet fish meal; small scales & ribs.

49/2

172772

* 113

SKELETON +
RT. WING

Catalog

Douglas A. Bell

Species: Larus glaucescens x occidentalis
Location: ~~Ptra~~ Protection Island, South Side
date: June 26, 1986
Sex: ♀ Left ovary w/16 ova > 3mm ♀
weight: 890 gm
winglength: (left): 41.40 cm
Primary length: 10: ~~28.85~~ 29.10
Left
9: 29.80
8: 28.92
7: 27.80
6: 25.08
5: 23.82
Tail length: 16.42 cm
Tarsus: Right 5.84 cm Right Middle Toe: 5.45 cm
Headlength: 11.97 cm
Bill length: 5.38 cm
Bill width: 1.12 cm
Bill depth: gonys 1.97 cm
ant. nares 1.925 cm
post. nares 1.74 cm
Brood patches: 3
eyerings: Pink Bill Color: straw yellow.
irides: Dark
legs: fleshy pink
remarks: Trapped off 3 egg nest. ~~to~~ tissues taken from bird after it had been frozen for 9 months.
Stomach empty except for 2 stones (white + black) 0.5 cm.

116

117 115

118

Doug Bell Catalogue

Date: 28 June 1986
172849 Location; Southbound 101, in downtown Crescent City, CA.
114 ♂ Ptychoramphus aleuticus Wt. 155 gms
Skin + Partial shell

Found dead on sidewalk, below neon sign, in the morning. Downtown Crescent City, CA, on southbound 101 just as it makes 90° bend @ south end of city. Tremendous fat on skin. Whole skull seemed translucent, no separate windows. Left testis 0.80 x 0.35 cm. Stomach empty.

115 Species: Larus occidentalis
172391 Location: Alcatraz Island, S.F. Co., Calif.
Date: June 1986 Sex: ♂ T. L & R: 1.1 mm x 3.8 mm
Weight: 395 gms
Winglength: 15.8 cm (Left wing)
Primary Length:

	Left. Wing	Rt. Wing		Left. Wing	Rt. Wing
10:	4.2	3.8	7:	7.3	6.8
9:	6.3	5.9	6:	6.4	5.9
8:	7.1	5.2	5:	7.7	7.1

Tail Length: 1.5 cm (not including down)
Tarsus: Rt. 6.05 Lf. 5.96
Headlength: 9.50 cm
Bill length: 3.82 cm Post. Nares: 2.27 cm
Bill width: 0.95 cm
Bill depth: gonys: 1.23 cm
ant nares: 1.30 cm
post nares: 1.28 cm
Remarks: Collected by Ray Pierotti. Bird approx. 3 weeks old. Emaciated. No fat, No pectoral mm; Tissues LHKM (Leg) taken. Stomach contained two small rocks .

Catalog Douglas A. Bell

116 Species: Larus occidentalis
172392 Location: Alcatraz I, S. F. Co., Calif
Date: June 1986 Sex: ♀
Weight 155 gms
Tarsus: Rt. 3.97 cm Lft. 4.17 cm
Headlength: 7.08 cm Bill length: 3.07 cm Post. Nares: 1.79 cm
Remarks: #42 Pink - hatched from Bill width: 0.89 cm
egg by Ray Pierotti; raised on Bill depth: gonys 1.06 cm
poor diet. Legs appear deformed. ant nares 1.16 cm
Bill soft + rubbery. Tail & Wing feather post. nares. 1.18 cm
pins barely out of sheaths. Liver & kidneys - reddish brown, large.
No breast muscles (trace only). Trace fat on sternum. About 10%
of leg muscles covered with thin layer of fat. Tissue taken (KHLM)

117 Species: Larus occidentalis
172393 Location: Alcatraz I., S. F. Co., Calif.
Date: June 1986 Sex: ♂ Trace testis - 2; 2.2 mm × 0.4 mm
Weight: 115 gms
Tarsus: R: 3.90 cm L: 3.86 cm Head Length: 6.86 cm
Bill length: 2.82 cm Post. Nares: 1.63 cm
Bill width: 0.72 cm
Bill depth: gonys: 1.02 cm ant. nares: 1.08 cm post nares: 1.04 cm
Remarks: #48 Pink - hatched from egg by Ray Pierotti. Raised on poor diet. Legs, body, bill is soft and rubbery. Liver, kidneys reddish brown, large. Right liver lobe: 4.4 cm × 2.12 cm, Gall bladder 2.62 cm long × 1.5 cm ⌀. (swollen). Trace pectoral, breast muscles. No fat anywhere.

Catalog Douglas A. Bell

118 Species: Larus occidentalis
Location: Alcatraz I., S.F. Co., Calif.
Weight: 125 gms Sex: ♂ (spermatic cords visible)
Tarsus: R - 3.66 cm L - 3.73 cm June 1986
Headlength: 6.82 cm
Bill length: 2.81 cm Post nares: 1.64 cm
Bill width: 0.71 cm
Bill depth: gonys - 0.97 cm ant nares - 1.00 cm post nares - 1.03 cm
Remarks - #46 Pink - hatched from egg by Ray Pierotti, Raised on poor diet. Legs, body, bill soft & rubbery. Liver, kidneys large, reddish brown. Gall bladder enlarged. Trace fat on leg muscles. Trace breast muscles only. Tissues taken (LHKM) Bürzeldrusen groß und fest.

119 Species: Columba livia
Location: U.C. Berkeley Campus, Alameda Co., California
Date: 9 May 1986 Sex: ♂ Left Testis: 23 x 10 mm Right Testis: 22 x 11 mm
Weight: 345 gms No fat, protruding keel.
Remarks: Found in tremors on U.C. Berkeley Campus by Thomas Wake. Bird regurgitated rice & seed. Crop contained rice, corn, small seeds. Poisoned?

Catalog

Douglas A. Bell

120 Species: Larus occidentalis

SKELETON + LEFT WING

Location: West Marin Sanitary Landfill, 1/4 mi. N of Pt. Reyes (town) Station, Marin Co., Calif.

Date: Aug 23, 1985

Sex: ♂ L. Testis: 7.5 x 5 x 2.5 mm
R. Testis: not found.

Winglength: 40.8 cm (left)

Weight: 950 gms

Primary length:
10 27.2 cm
9 28.7 cm
8 27.8 cm
7 26.1 cm
6 23.2 cm
5 molted

Tail length: 15.00 cm

Tarsus: 6.49 cm (left)

Head Length: 13.13 cm

Bill Length: (post. nares): 3.52 cm

" width: 1.23 cm

" depth: gonys:

ant. nares:

post. nares:

Remarks: Stomach full with "meaty-looking" material and one small bone (chicken).

Catalog

Douglas A. Bell

172806

121

721

SKELETON
+
LFT. WING

Species: Larus occidentalis x glaucescens

Location: Pine I. Willapa Bay, Pacific Co., WA

Date: June 1985

Sex: ♀

Weight: 840 gms No fat. Weak pectorals.

Winglength: 40.4cm (worn) Wingchord: 129.5 cm

Primarylength: 10: 28.4
9: 29.2
8: 28.2
7: 27.2
6: 25.2
5: 23.7

Taillength: 15.7

Tarsus (left): 5.77 Middle Toe: 5.45 Inner Toe: 4.14
Outer Toe: 5.42 Hallux 0.42

Headlength: 12.12

Bill length: 5.32 Bill post nares: 3.41

Bill width: 1.15

Bill depth: gonys: 1.93 post nares: 1.81
ant. nares: 1.92

Brood Patches: 3 - refeathering.
Bill: Straw Yellow:
Eyering: yellow
irides: –
legs: fleshy pink.
Remarks: Picked up by Steve Speich - found nesting on island in nesting colony, Willapa Bay. In freezer 2 yrs. Stomach empty. Fish meat in throat.

D. A. Bell

1986

Journal

List of localities
California
Northern Calif., Oregon, Washington

Field Notes

Douglas A. Bell

1986

Alcatraz Island, San Francisco Bay, San Francisco Co., California
March, april, May, July (various dates)

University of California at Berkeley, Berkeley, Alameda Co., California
22 April, 26 April

Northern California, Oregon, Washington
2 June - 28 June

Doug Bell

FIELD NOTES

Alcatraz Island, San Francisco Co., Calif.
March 23, 1986

11:30 am. On the cistern (North end) of Alcatraz Island. Weather is sunny, but hazy. Almost no wind. Water calm. Gulls are singly, or in pairs on the cement flat of the cistern. All birds spaced out, on territories. Whenever one bird flies in, others around it give wokka, wokka wokka calls. long calls Some birds giving occasional "mup mup mup" alarm call at our presence. (Maren and I are working here).

Recordings:

One - mixed warning calls, first low record level (1/4), later high record level (3/4).

Two - pair on guard hut. Warn call at my presence. Low record level (1/4).

Three - greeting long call. Record level 1/3 - 1/2. long dist.

Four - begging, long distance (♀ on ♂). (1/2 level)

Five - (1/2 record level). Direct disturbance, misc.

Six - Various alarm calls, one bird. (1/2 level) Warn.

Seven - Alarm calls - much background wind. (1/2 level)

Eight - Alarm calls - pair of birds, both alarm calling. (1/2 level)
Other misc. alarm calls; some wind.

2:00 pm - Observed gull on territory eating 6 in "midshipmen"? Probably courtship fed.

2:15 pm - On Industry Building - two males are ~~at~~ choking and going through long call disputes. Face off, mutual picking at small rocks with bills. Males walking nearby

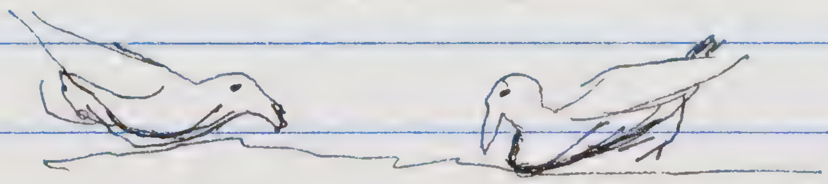
FIELD NOTES

LOCATION: Alcatraz Island, San Francisco Co., Calif.

Doug BELL
March 23, 1986

side by side, ~~stock~~ choking, long calling. Turn and face each other, then couple lunges. One grabs other's bill and holds it firmly. Both birds begin trying to pull one ~~a~~ another back into its territory. Simple stand off, with neither succeeding, but one has a better grip on the other. Birds held together over 2 min., ~~then~~ the one with the better grip began pulling other into territory. Birds lost grip, re-lunged. Again, the one was gripped around bill, this time near eye. The "looser" began hitting second bird with left wing very violent. About a minute of this went on, then they broke off. Mates during whole time watching, long calling, picking gravel. When winner broke off its mate came up to it, calling. Looser stood ground on territory. Birds still long calling.

2:30 PM - Face-offs still going on. Both males will sit on ground, pick at ground, but sit almost hunched:



FIELD NOTES

DOUG BELL
DATE: 18 APRIL 1986

LOCATION: Alcatraz Island, San Francisco Co., Calif.

WEATHER: Hazy, but sunny.
Moderate wind to heavy wind

TIME: 12:00 noon - 15:00 hrs.

Gathering up wood and remains of blind that blew down from its "perch" on the cistern. Most pieces present - looks like it could be repaired. Katie Muir and Emilie Martens are with me - they are collecting data on food remains and nest sites for Zoo. 107 projects.

As far as the gulls are concerned - not much has changed since last visit. Many birds on the cistern are paired. Some squabbling over territories going on. Mild alarm when Katie and Emilie go thru the colony on the cistern. I'm not paying close attention to the gulls - as I'm busy with the blind.

Four Western Kingbirds seen near the cistern - making a number of calls - flitting about - foraging every so often. Wind picking up.

FIELD NOTES

DOUG BELL
DATE: 22 April 1986

LOCATION: BERKELEY CAMPUS, ALAMEDA Co.,
Calif.
WEATHER: RAIN
TIME: 9:30-10:00

At lawn just east of Giannini Hall, south of University House. Observing partial albino robin. The bird is quite tame - foraging on lawn. Was at first within ca. 2 meters of a normal male, also foraging. The albino then left this bird, walking, foraging. No real interaction took place. Another male flew up in the tree to the west of this bird. No interaction, though.

I might guess the albino to be a female. It has a pale yellow bill. Dark iris. White/dark flecked (patchy) head, nape, back. Most primaries & secondaries dark, but about 2 secondaries and possible primaries 1 & 2 are white, on each wing. Tail mostly dark, with left outermost tertials white (2?) Right outermost tertial whiteish. Wing & tail coverts flecked white/dark. Breast ~~and~~ belley is white, with rust collar (about where the dark collar of a varied thrush would be). Very light rust patches on each flank, and one small rust spot on center of lower breast. Throat white. Odd looking bird - like a large snow bunting in mixed plumage. Came to within 2 meters of the bird. After ½ hour of mostly unsuccessful foraging the bird flew belabored up into a tree. Very calm bird.

TIME: 2:00 - 2:30 pm White-flecked robin observed foraging again. Came very close to me. Then flew up into a tree. About 5 other robins were in this tree, but there was no interaction between the white robin and the others

FIELD NOTES

Doug Bell
Date: 25 April 1986

LOCATION: Alcatraz Island, S. F. Co., Calif.
WEATHER: clear, sunny. Moderate wind.
TIME: 12:00 – 14:00

In for a quick check of the island. Paired birds (Western Gulls) everywhere. Ray Pierotti, Katy Muir, Emilie Martens with me. Katy and I watched a pair of gulls go through a mutual courtship feed, on the Parade Grounds. The pair was disturbed by our presence, but came back to their territory. Upon landing, they ~~chott~~ choked on-site. Female began head begging. The male, a big bird, old looking, went through some regurgitating motions after about 10 seconds. He then coughed up a small fish (as long as bill) into his bill, mouthed it, then swallowed it again. He repeated this twice more over the next minute. The female also coughed up a small fish, only to swallow it again. Both birds took off, flew around, then landed on territory again. Male sat down. Female begged a couple times, then gave up. Began preening.

Overall, the gulls are giving more alarm calls at our approaches. Checked Parade Grounds, Western Perimeter, and Cistern and power houses. Only 3 nests on Cistern had eggs: two nests w/ 1 egg each, one nest w/ 2 eggs. Counted 50 gulls soaring about cistern while the 3 others checked the nests. No eggs on Industry Building roof (West of Cistern). Watched the roof for about 20 minutes, but saw no courtship feeding. Only one minor territory dispute where one bird held up wings & walked over to another who had just landed. The other bird walked about 2 yards away from the ~~oncomer with~~ threatening bird.

LOCATION: BERKELEY CAMPUS, ALAMEDA Co., Calif.
Notes on leucastictic Robin.

26 April 1986: 19:00-19:30 - Lawn east of Giannini Hall - grassy knoll w/oaks, south of Univ. House (same location as on 22 April 1986). Robin foraging on lawn, asphalt walkway. Normal robin flew down to same spot as white bird. The white robin dodged, but did not attack or vocalize its usurper. The white robin was not observed to pick food and hold in bill, rather, it swallowed everything. Other robins are actively gathering food for nestlings. One nest with begging young found nr. Public Health.

29 April 1986: 17:00-17:10 - Same spot as above. White robin sitting in one of the trees. Eating some berries. Flew down to lawn, then back up again. Chased another robin out of tree.

6 May 1986: 17:00-17:00 White robin foraging on lawn. Same spot as always. Chased another Robin on foot.

8 May 1986: 18:00-19:00. At knoll next to Gianini Hall. Waiting w/ Maren for the White Robin. The bird showed up at about 18:20. Flew in from direction of creek, NW of knoll. Landed in olive tree. Sat about 15 min. - preening, scratching. Seems to scratch itself about the ears rather frequently. Looks ~~bedraggl~~ a bit haggard. Left wing droops more than other wing. Flew down from olive tree, began foraging on lawn about the tree. About 6 other robins in and on ground about this tree. We left at 19:00 - passed by this spot at 19:30 again, but White Robin not to be seen.

FIELD NOTES

Doug BELL
DATE: 28 April 1986

LOCATION: Alcatraz I., S.F. Co., Calif.
WEATHER: Sunny, clear
TIME: 9:00 – 13:30

With Ray Pierotti. Building wood blind on spot below cellhouse. Good view of Cistern and Industry Building Roof. Not able to watch gulls closely, but some courtship is taking place (choking, feeding?). Finished blind by about 11:30. Had lunch, then went around island checking nests. Found couple more eggs on Cistern (one nest of 3 eggs), one egg on I.B. No eggs on perimeter, parade Grounds.

FIELD NOTES

DOUG BELL
DATE: 30 April 1986

LOCATION: Alcatraz I., SF Co., Calif.
WEATHER: Sunny, clear, some ~~f~~ fog wisps
TIME: 9:15 - 9:59

With Ray & Katie in blind overlooking Cistern / IB.

Long calls: aggression, recognition.

Mew calls: "I have food" call.

Courtship feeding: chicken transfer on power house roof. Pair in front of blind: first exchanged large fish, 7". About 5 min. later male of same pair coughed up midshipman - tug of war ensued (< 30 secs), female eventually got it. On IB - another midshipman transfer. Forced copulation on nest 20 - male on top of nest-sitting ♀. ♀ pecking @ ♂. Male very persistent - sitting on female for at least 1.5-2 mins. Male (prob. from nest 19) also gets hassled by probably his own female - mewing, trying to intervene - she is standing on rock above two, looking down, mewing, she also jumped down on them. Male still persists. Another pair brought in large fish (9") - transfered. Pair M copulating on IB. Another pair on Laundry Building copulating.

9:59-10:30 : Pair L copulating - male doing gutteral. Forced copulation again - this time the pair in front of blind on cistern. Male making mewish call (like short long call). After < 20 secs the real mate of raped female flew in - knocked ~~her~~ raping male off female. Two males then threatened, choked, grappled. Interrupted food transfer - unident (chicken?). 2 more food transfers → unident small sliver-like objects. Female of previous pair regurgitated the 9" fish. Big blob of chicken regurgitated onto cement - nobody wants it. One male picked it up, brought over to his mate, dropped. She didn't eat it. Male ate it.

Another chicken transfer. Pair at 20 transferred fish (herring, 7"). IB roof - food transfer - chicken, ~ digested fish?

FIELD NOTES

Doug Bell
30 April 1986

LOCATION: Alcatraz I., SF Co.
WEATHER: Windy Sunny

10:30 - 10:45

Attempted forced copulation. Female standing though, fought him off. Fish transfer (7" herring?). Brownish grey back cistern. IB: food transfers - fish (4") and goops.

12:35 - : Pair behind rock 20 - female begging, male going thru motions, but no food transfer. While working on blind (11:00 - 12:30) saw another forced copulation. Male very persistant, female biting breast + throat of male. Male long-calling. Went on for about 1½ min. Two different food transfers of goops (+ some chicken) on cistern in front of blind. One transfer of 8" fish (herring) on right of cistern. Food transfer on IB - 8" fish. Copulation pair L on I.B. 13:04 - forced copulation 1.5 min. ♀ biting male's throat bill. Normal copulation, ♂ making gutteral noise. Food transfer - 7" fish. Food transfer: 2 x 3" packet of meat and then one 5" fish. Copulation at far end of cistern, behind pair 20. Copulation to right of 20. Food transfer - little fish. Food transfer - pair 20 - fish? Forced copulation here in front (same female as earlier - whose mate chased off the male). 13:31 - 25 pairs on cistern visible from blind. Food transfer: 2 small fish, pair near front. Food transfer - pair on far right - chicken.

FIELD NOTES

Doug Bell
May 5, 1986

LOCATION: Alcatraz I., S.F. Co., CA.
WEATHER: Broken clouds. Moderate wind

9:30 AM - : w/ Ray Pierotti in blind. Pair 20 - female
on nest, being "raped" by male (#8?). Possibly ♀ from
pair 19 also tugging at rapists wing. Female 20 protesting,
biting males breast. Female able to push him off, stand up.
Copulation on IB roof. (1.5 min.) Copulation on Cistern - behind pair 20.
9:32 Single bird standing on IB roof, drooped wings (like a hen).
Near previous copulating pair. 9:37 chased off by male of pair on rim.
9:40 Copulation IB. roof. 9:51 Banded bird on Cistern: ad., left leg yellow,*
USF&W service band 9:55. Courtship feed - chicken fat (cistern). Short cop-
ulation - IB roof (< 1.0 min.) 9:57 - feeding - fish pieces - near pair, cistern.
10:02 - Bird w/ drooping wings back on IB roof. 10:02 Male in to mate
on right cistern bay (in front). Mewed, walked ca 1 m., other male
grass pull. Female follows. Male mews, female mews - male coughed
up fish fillet. Female took, bird flying overhead dived on her.
Mate attacked first the diver, then his own mate, probably because
she had tried to get some of food back. 10:10 IB - feeding - male coughed up
chicken, swallowed again. 10:16 ♀ 20 head tossed, begged on nest (4 times)
then yawned. 10:18 - IB - pair near end walking side by side upright
in half-circle. Pair grass pulling - right side of cistern. 10:28 Short face
off - grass pull - male at end of cistern. 10:31 - IB - courtship feed - mewing, male w/ fish
bones in bill, swallowed again. Copulation of another pair. 10:34
Copulation, IB roof. Cistern - male of near right. pair - fish in bill,
reswallowed. Attempted copulation of female on nest (mid way -
cistern). Female fought off. Pair of rapist Long calling. 10:38 Stranger
male down in front, grass gathering, owner in upright threat approaching,
stranger away.

FIELD NOTES

Doug Bell
May 5, 1986

LOCATION: Alcatraz Island, S.F. Co., Calif.

10:45 : Copulation - cistern 10:46 - copulation, cistern. 10:53 : Copulation, cistern. Courtship feed - cistern. Recording: pair (Level: 1/2) copulating on IB roof: 11:01 attempted copulation I B roof. 11:02 . Copulation - cistern. 12:50 : From 11:02 - 12:50 - Out checking nests. Also caught a gull w/wounded wing. Sacrificed bird. 12:50 - Back in blind w/ Ray. Two copulations observed, pair 32. Recorded one of the copulations. 13:05 - Bird w/ drooping wings back on IB. roof - Wind has picked up considerably. Droopy chased off right away. 13:11 - droopy back on IB roof. Bird w/nest material flew in to cistern - landed, was chased off by "residents". 13:17 - Courtship feed - in front cistern - herring. Recording: attempt recording of copulation (too windy + too far. Recorded long call here in front cistern. 13:20 - IB - Pair courting, male & ♀ facing - billing / begging. Both doing head toss, ♂ circling ♀, she now coy. Recording: mew, begging. Copulation w/out final cloacal contact. End side 1.

FIELD NOTES

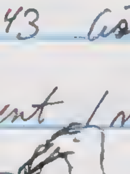
DOUG BELL
23 May 1986

LOCATION: Alcatraz I., S.F. Co., CALIF.
WEATHER: High overcast, Moderate Wind
TIME: 9:30 -

9:25: With Ray Pierotti and Kevin Shaffer in blind @ cistern. On IB - Courtship feed - fish parts. Male of pair banded, F&W S. Band + Yellow. Ray counts 50 nests on cistern and 20 on IB. 9:28 - Copulation attemp in pair on fallen tower. 3 banded birds seen on powerhouse roof: 2 with F&WS bands + pink bands on left legs. 1 bird w/ F&WS band on left leg, green band on right leg. 9:45-10:20: checking nests on cistern. One nest has 2 chicks, 1 egg. Another nest, where ♀ has hole in right foot webbing, has eggs pipping. This ♀ so desperate to sit, she does so with us standing 2 m away. One gull coughed up anchovy and mass of yellow fish eggs. Bird in adult plumage except for a few blackish tail feathers nesting on fallen guard tower (cistern). Pair court. feeding (fish) on IB. This is the banded (F&WS. + yellow - left leg) male - the pair seems to be without a nest. Male has grey back & scapularies, but it has brownish primaries and some black in tail. Subadult seen on powerhouse roof - brown back, grey shoulders.

10:40 Pair on IB, w/ banded ♂, choked at spot - no nest there.

10:43 Cistern: male landed on platform, long called directly at female. ♀ went 1 m over to him, put head under his neck. ~~Both birds mewing~~



Female then separated, mewed, coughed up 2 small fish (<3") and reswallowed them. 10:55: One bird at nest on cistern tugging on 10" fish - ♀. Don't know if she was fed it now, or if she regurgitated it. Suspect latter. She also coughed up some fish head. Now she's dragging it around, tearing and shaking it. Bird from another pair approaching (♀?). Chased off by ♂ of first pair. Bird wandered back though, managed to steal the fish. 11:05 - Male of no nest pair on cistern mewing, coughed up fish, (large) ♀ tugged at it, got piece, ♂ swallowed rest.

FIELD NOTES

Doug Bell
23 May 1986

LOCATION: Alcatraz I., SF Co., Calif.
WEATHER: cold; thin clouds; partial sun. Mod-strong wind
TIME: 11:10 –

11:20 – ♀ begging from ♂, who just started mewing. ♂ not forthcoming. ♀ coughed up small fish, swallowed again. Two birds seen on cistern with oily breasts – one had ca. 35% of breast & belly badly smeared with black gunk. 11:45 – broke off obs.

12:24 – Courtship feed – new pair on IB → Eel.

11:45 – 12:15 – Checked perimeter on North End: 14 nests + 7 on walkway. One badly oiled bird

12:40: Courtship feeding – pair nest building on tower of cistern. Male ~~dropping~~ letting food into bill, female taking it. 12:56 – Mew, approach ~~to~~ of ♂ to ♀ on nest (IB). Followed by both ~~&~~ choking.

LOCATION: Alcatraz I., SF Bay, Calif. 30 May 1986
Weather: Overcast, cool.
TIME: 9:00 AM – 12:45

Trapping on Parade Grounds. Set traps out over a 3 egg nest and a 1 egg nest. Caught ♀ off 3 egg nest right away (DAB 068). One-egg nest pair, circling trap, but not willing to go in. After 1½ hrs. I switched traps on both nests. Gull went into trap on 1-egg nest 3 times – but I didn't catch it. Once, trap didn't spring, 2 other times people interrupted. Caught male (DAB 069) Western Gull, mate to ♀ caught earlier. While Ray et al were walking back on SF Fort Mason, we watched a "pair" of 3 yr birds (brown wings, gray scaps & back) go thru mewing, ♀ coughed up food. Some chocking movement. Finally ♀ chased/attacked same ♂. All on rocks in front of beach.

FIELD NOTES Doug Bell

June 2, 1986

Drove from Berkeley CA to Garberville, CA. Stopped in at Hopland Brewery on way. Met Mrs Phelps, Pam & Todd in Garberville, then drove with Pam & Todd up to the ranch near Garberville, Hum~~boldt~~boldt County.

June 3, 1986

At Pam & Todds Ranch. Around their house: bluebirds, lazuli buntings, dusky flycather, anna's & allen's hummingbirds, crows. The ranch is in the hills west of Bear Buttes, from their ridges you can see King Range. Beautiful country. Open ridges, scattered firs, cedars, some oak forests. Helped Pam & Todd clean up the ground around some fruit trees.

From 16:00-17:00 Maren and I went to Goat Rock to watch for peregrines. When we arrived, heard one bird do a ka-chuck, ka-chuck. Couldn't see it right away though. Then it appeared on a branch of one of the large snags off the rock. Great adult — very dark head, practically no malar stripe. Very light breast. Yellow cere & feet. Looked like a ♀. We watched here for an hour - she sat the whole time, preening every so often, rousing, when we left, she was still sitting. We walked back to ranch. Saw: kestrels, raven, red-tail, heard blue grouse, saw meadowlark, blue birds, killdeer, calif. quail, common bushtits, robins, turkey vultures.

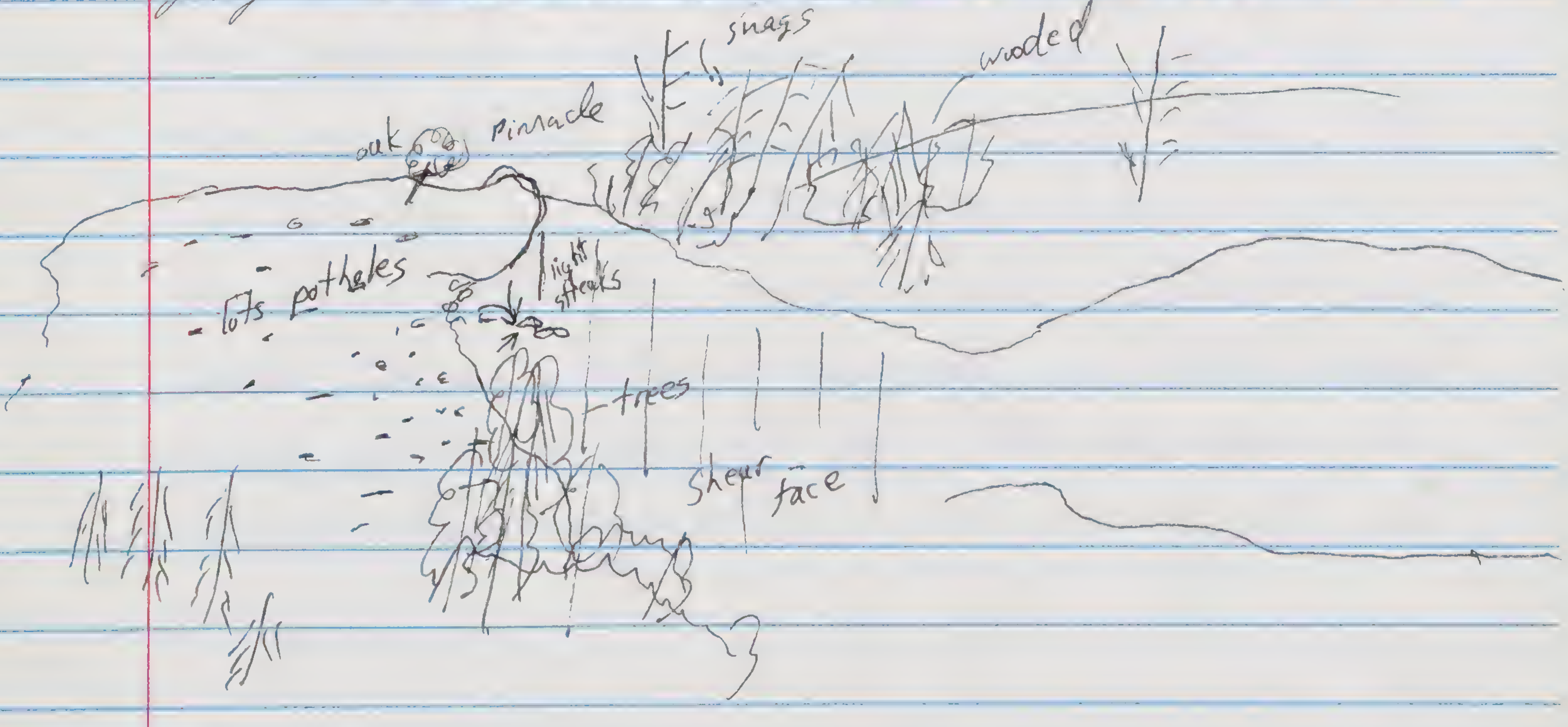
FIELD NOTES

Doug Bell
6/4/86

June 4, 1986: Morning, packing up and leaving Pam & Todd's house at the ranch.

10:00 AM - @ Goat Rock, mostly sunny, fog breaking on surrounding ridge, SE wind. Goat Rock is bathed in sun. Hear quail, meadowlarks, lazuli buntings, young red-tail hawks begging. No sign of any peregrines on the rock. On road down from ranch saw 2 seperate Blue Grouse, one flew from road down 70 yds to trees, another we saw eating spruce buds in tree.

11:05 AM - at Cliffs on road bw. Briceland/Redway. Heard young peregrine screaming. Looked about 1 min, saw one imm. ~~bg~~ first sitting, then lying on top of cliff face. Then saw 2 more young sitting in pothole, finally 1 more on small rock pinnacle next to pot hole. So total of 4 young visible, 3 in pothole, 1 on top of cliff. 3 of the young look like they could fly, one seems to be still younger and has short tail some down on head.



Field Notes

Doug Bell
6/4/86

11:26 AM - Still at Briceland rocks. 4 young peregrines at same spot. One adult bird w/ full crop seen flying off, power stroking up the creek canyon (headed west). Of the 4 young, 2 appear to be ♂ (including the small runt) and 2 ♀. Todd said the falcons had 5 young though. The runt ♂ has down over its whole shoulders and wing coverts.

11:34 AM - Of the 4 young, the one on top of rock, and one sitting in the pothole, are laying down flat as pancakes. The one on the pinnacle next to pothole is cleaning, preening itself. These other 3 young have their tails & wings full in. Still look uncoordinated in their movements though.

11:41 - All young falcons lying down. There is a house to the left of the cliffs, not more than ~~100~~ 150 yards away, but it is sort of out of view from the cliffs themselves. One can hear roosters crowing, electric motors drilling, etc etc. Bird on top of rock is dropping wings, preening neck, throught. Has rich chocolat-brown back, tail (~bars), head. Thick malar strip, cream throat, golden-brown breast. Absolutely beautiful. Also has a touch of light golden streaking on nape & superoculars. ~~Black~~ Legs & feet have slight yellowish tinge.

11:54 - The young falcon on top of cliff ran, hobbled, jumped around, first to the cliff edge, then back about 10 yards to some shady ~~chapparal~~ manzanita, oak tangle. Out of view.

FIELD NOTES

DOUG BELL
6/4/86

LOCATION: Sugarloaf Rock, Humboldt Co., CA.

WEATHER: Clear, but cloudy. Towards evening → fog, drizzle.

TIME: 17:00 → to dark

Drove over ~~[illegible]~~ Ferndale to Sugar loaf rock. Asked Mr. Joe Russ for permission to camp. Set up camp, about 1/4 mile south of Sugarloaf rock, just north of a freshwater creek that flows into the sea. Lots of gulls come here to bath & drink. Shot 2 birds (L. occidentalis - 072, 073) with 2 shots - the 16 guage works better than the 410 for gulls! From a distance, sugarloaf has double-crested cormorants, gulls. Saw a flock of ca. 12 brown pelicans go patroling by. 2 single terns - hunting alone - also went past (red bill, black cap, large, light wings, little fork - Caspian Tern). Other birds - cliff swallows and barn swallows at bridge & ranch house. White-crowned sparrows singing everywhere. Song sparrow. Killdeers at creek mouth. Turkey vultures, red-tails.

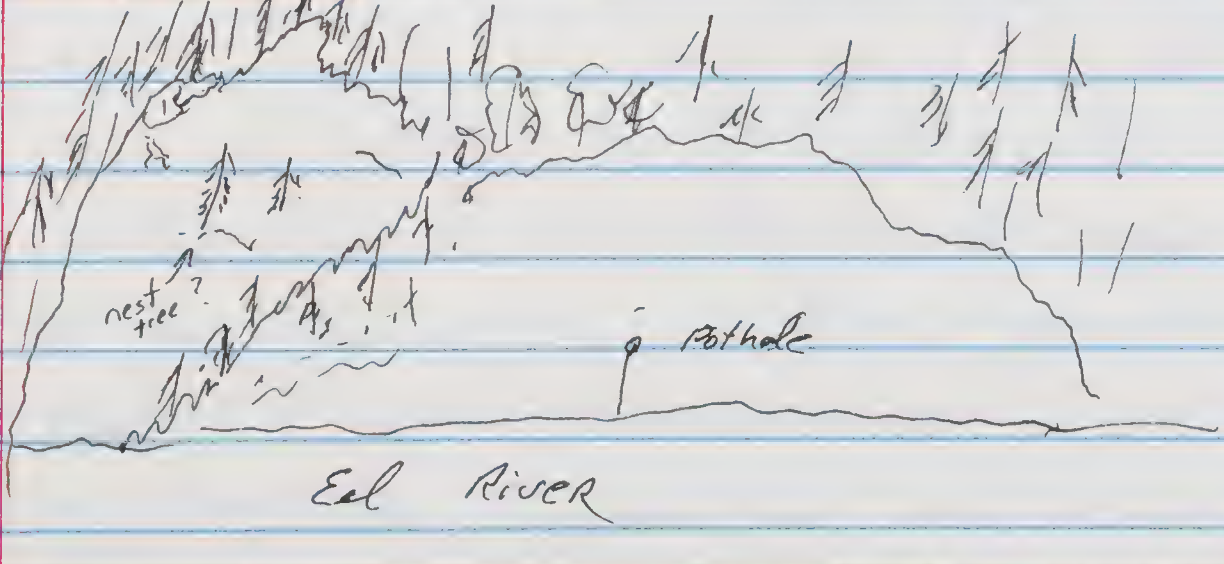
June 5 1986

9:00 AM - 13:00 Weather - warm, high fog. Shooting gulls at creek outflow on beach just south of sugarloaf rock, Humboldt Co., Calif. Shot a total of 5 gulls, hit each one with a single shot, but needed to finish off 2 birds still in water when they crash landed so they would not go out through the surf. DAB 074-078 acquired today.

Drove back over Ferndale to Weott (John & Dusty Knight's)

June 6 1986

At Weott visiting John + Dusty Knight. John took Maren and I to the cliffs on the Eel River at Holmes (Humboldt Co.). We observed the cliffs from about 14:00-15:00. As soon as we arrived we heard wailing of a peregrine. Then saw a falcon fly in to the base of a tree on sheer face of left-hand cliff. Ka-chuck, ka-chuck heard. The falcon then flew from here to a branch snag to left of the tree. Sat there for at least an hour. Adult tiercel ♂. After 48 minutes a falcon (ad ♀) flew out from the base of the tree and began soaring up. Went slowly up ca. 800 ft, circling. Didn't bother vultures or osprey also soaring around this stretch of the river. She then did a long slow stoop ~~out~~ across the sky and landed in a tall dead snag way atop the cliff bank. It seems the ♂ had transferred food to the ♀ at base of tree on cliff. She might have eaten, then soared out. Doesn't seem as if the have young. We left w/ both birds sitting on cliff + ~~t~~ snag. Trucks + tractor graveling going on at river below.



June 7 1986

11:00 - 11:45 at Cliffs along Eel River at Holmes, Humboldt Co. CA. Took a couple pictures of the most likely nest cliff. Very strong wind. No trucks working the gravel bars. I scrutinized the cliffs for quite awhile, but absolutely no sign of any peregrine falcons. We drove on.

12:30 - 13:30 at Scotia Bluffs, along Eel River, nr. Rio Dell, Humboldt Co., CA. These bluffs have always looked promising, with the best cliffs being the most "downriver" ones. Some good trees growing out from scattered ledges, but no great potholes visible anywhere. These cliffs, like those at Holmes, are of a soft sandstone which flakes away in large sheets with each passing winter. Looked real hard, but no sign of peregrines. Ravens & turkey vultures, great blue herons flying along the river. Calif. Quail & lesser goldfinches singing in brush on river's edge.

15:00-16:00 Looking over Trinidad Bay, CA. for possible gull hunting. After going back to Arcata and arranging accommodations, went back to Trinidad to eat. From 19:40 – sunset (21:00) walked around Trinidad Head with Maren. Saw: Pelagic, Brandt's, Double-crested cormorants & nesting colonies thereof on offshore rocks. Pigeon guillemots in Bay. Common Murres. Lots of Western Gulls about. A positive imm. Glaucous-winged Gull flew by too! On Trinidad Head Trail Maren and I saw

June 7, 1986

very clean american goldfinches - singing profusely. Varied thrushes were also singing. A small, almost uniform dark empidonax flycatcher. Two cowbirds. One hummingbird. In Trinidad harbor we saw 3 otters. Got very good views of them, as they were feeding on crabs and eating these on the rocks just below the pier. Chewing and some buzzing noises could be heard. These otter had uniform dark brown fur on back, somewhat lighter bellys, and light snouts. Black eyes, longish, longitudinally flattened tails. Very active. They would come half-way, or almost completely out of the water ~~to~~ to eat crab on a rock. Often stole each others crabs. At one point, 2 otters climbed up on a water-level dock, then slid back into the water. The 3 otters hung together as a group.

June 8, 1986.

Spent the night in Arcata, CA. At around 11:00 AM we went up to Trinidad Harbor, Checked to see about getting a boat to go out in Harbor for gull collecting, but it is too windy (~~Gt~~ Gale Force Winds). People also against our collecting them. Went back to Clam Beach, a county park, and walked up to the mouth of the Little River (Humboldt Co.). Good spot to see bathing gulls, but lots of people. Shot 2 Western Gulls (DAB 079, 080). Marsh Hawks seen at this dune area. After prepping the gulls Maren & I drove North. Checked out areas @ Gold Bluffs Beach (Good for Gulls, but need permission), and ~~Lake~~ Coastal Drive (Flint Rock, Split Rock). Beaches inaccessible
Observed an Osprey at Humboldt Lagoon - Dove twice, not successful.

June 9, 1986

Camped last night at Mill Creek Campgrds, Del Norte County CA. Very good spot. Alder groves on creek, redwoods in the campground. Chipmunks & Stellars jays abound. Robins, varied thrushes, chestnut-backed chickadees, wilsons warblers seen in and about campground. Lots of Rhododendron in the redwoods up here! We drove north to Crescent City, CA. Arrived 11:15 AM. Went to Harbor Districts Office, to see about getting permission to collect gulls. The harbor master, Rich Taylor, said he would need to wait for a board ~~meet~~ meeting to decide. But he put me in touch with the Cal. Fish & Game Warden, Don Gastineau (hm. 464-3320) Sheriff -4191. Met the warden 3 hours later - he said no shooting from so. city north to beyond Point St. George. Suggested the county dump on old mill road. Therefore went to county public works dept, asked Max Bridges for permission to collect. He obliged readily! Said I could collect during open hours of dump. We decided to go tomorrow morning.

In the afternoon Maren & I had gone along Pebble Beach Drive, Crescent City, and observed the rocks & shore at various points. Lots of Western Gulls (ad. & imm.) and Double-crested cormorants. A good Freshwater Creek flows out onto beach just south of Castle Rock. Gathering spot for gulls. Saw a patrol of pelicans go by (15), and an osprey cruised past, hunting the shoreline. Weather is warm & sunny, moderate to strong wind. Castle Rock is phenomenal: must be several tens of thousands of birds on the island - cormorants, gulls, murres, guillemots, puffins. Massive coming & going of birds. 2 red-throated loons seen fishing in the surf. Barn & cliff swallows, crows, blackbirds, savannah sparrows in the grassy areas just in from the beaches.

June 10, 1986

Spent the night in a motel (Reef) in Cresent City - what a lousy place! From 0900-10:45, went collecting gulls to the Cresent City county dumps on Old Mill Road. It is just E of the Cresent City airport. Great place to collect - as it is very large, secluded in pines. Went around a lily-filled pond and back in to the fish dumping area. Loads of gulls (picture). Collected 6 birds on 7 shots. The 410 brought one bird down, but only peppered another. 16-~~gaug~~ guage is the only way to go. All six birds were adult Western Gulls (DAB 081-086). No adult Glaucous-winged were seen anywhere, but I did see 3 different imm. glaucous-winged gulls on the Cresent City coastline. After collecting, Maren & I went to beach to work-up the gulls. Got very sunburned. Then went to Del Norte Ice Co., rented a locker for the birds (#213 - 12.^{50}/month), then headed north for Oregon.

Oregon has a very beautiful coastline. Fantastic rocks in water. Very green. Not many people or garbage. We sent up camp at Humbug Mountain Campgrounds, south of Port Orford, Ore. Great spot. Robins, Stellars Jays, Bewicks Wrens, Swainsons Thrushes. White-crowned Sparrows sound really different up here.

June 11, 1986

Out of camp late today. Headed north. Humbug Mtn. was a very good campsite. Drove to Bandon, ORE, on the Coquille River. Very nice area, lots of gulls. Saw an apparent 3-4 year old Glaucous-winged Gull. We then headed north, on bridge over Coquille R. there is a

June 11, 1986

fantastic gull nest (Western) on one of the pilings - looks perfect, took a picture. We went north through Coos Bay to Reedsport, ORE. Called Jon Johnson (ORE Fish & Wildlife), he gave directions to dump and to beach on 237 (secluded area). We went to dump - no gulls. Then on to the beach via 237 - good dirt road ca. 5 miles. Great beach locality - where creek empties into ocean about 25 gulls were milling about. But all immatures - no adults. Reedsport is practically in middle of Oregon Dunes - where there are no gull nesting areas. So - we decided to go back south to Bandon. This we did. (By the way - saw an Osprey catch a fish in surf out at beach off 237). We camped at Bullards Beach St. Park, just north of Coquile R. and Bandon. Lesser Nighthawks could be heard & seen skirting across the sky.

June 12, 1986

Up early, packed. Drove to Bandon, checked with Police about shooting at dumps. Went to dump. Poor place to shoot gulls - guy there told us we'd have to contact County Court House in Coquile. We went back to Bandon city. I looked around, checked with fishermen & Port Commission. Nobody going out. We then drove south on Beach Loop Road - many large offshore rocks just south of south jetty. Many gulls - colonies on 2 big grassy rocks - almost seem reachable by foot at low tide (Oregon Island National Wildlife Refuge). Cormorant & Murre colonies also present. But no place to shoot along these beaches - too many people, too many houses. But I'll have to collect at Bandon someday -

June 12, 1986

need a boat though. No other way - shooting from beaches is out. On north jetty is also State Park property. Neat lighthouse. Gave up with Bandon - drove north to Coos Bay Checked with State Police - called County People in Coquile - no use of firearms in dump. Can see lots of gulls in & among the pulp mills of Coos Bay & North Bend. We drove over to Charleston, ORE, at mouth of Coos Bay. Talked to ORE F&W, -Debbie Hansen (888-5515) then with the Oregon Inst. of Marine Biology. They gave me a number for DAN VAROUJEAN, wife: Marge who works both at the institute and does alot of seabird (Murre, Petrel, and lately, Peregrine) research. Called him up at his house 756-6955. Had a very nice chat. Talked about his work here - he's done lots of basic seabird survey work. He thinks he's been seeing more hybrid gulls lately. Also more Peals' Peregrines in winter on the jettys & sand dunes. He invited me out with him, but he's not going until next mon. or tues. He also said that the last good gull nesting is Coos Bay, then nothing until Sea Lion Caves. By the way, ORE F&W fowl people are: Bill Heins, Pete Perrin.

Since no luck with gov't. boats, I asked fisher. Wally Lewis (looks like Paul Newman) of the "Sunbeam" agreed to take me out on Coos Bay to shoot gulls for $40.00. From 17:30 - 18:00 we went out, straight to large feeding congregation of guilemots, gulls & pelicans. Chummed w/ 2 slices of bread - then started shooting. I shot five birds with five shots - all adult Western Gulls

FIELD NOTES DOUG BELL

June 12, 1986

DAB (087-091) - directly on Coos Bay, ORE. Weather was calm, sunny, warm. We picked up the birds and headed in. Maren & I then drove north. Beautiful coastline around Sea Lion Caves - also nesting gull & Cormorant Colonies on the steep rocks (gulls are on grassy cliffs, slopes around Sea Lion Caves.

Forgot to mention - I saw (maybe) one or two almost adult Glaucous-wings at Coos Bay (3-4 yr. olds), and 2 apparent hybrids gulls.

We pulled in and stayed at the Beachcomber motel (7 mi So. Yachats, ORE). Neat beach - gulls wander past, Caspian Tern. Flat area - coastal meadow. Barn & Tree Swallows. Crows, Redwing Blackbirds. Am. Goldfinch - White-crowned Sparrow.

June 13, 1986

Friday, the 13th. Out on the road at 11:00. We drove first to Waldport, ORE. Stopped, ate, did laundry. On to Newport and Yaquina Bay. Went straight to the OSU Hatfield Marine Science Center. Also stopped in at the OR. Dept Fish & Wildlife to ask about collecting gulls. The game wardens suggested Yaquina Head (but this is BLM property). ~~&~~ They wanted to trade me 10 gulls if I would go out and get a tame deer for them. At the Marine Institute I asked about freezer space and gull people. I got the name of Range Bayer (265-2965), Bob Olsen (867-3011 ext. 244) and Roy Lowe off 867-3011 ext 270 hm 867-4033 - Called up Range Bayer, very

con't. June 13, 1986

nice fellow. He did the Murrelet article on gulls @ Yaquina. He also thought Yaquina Head easy to collect at - from land with traps. He suggested the Yaquina Estuary, where there are about 25-30 pair nesting on every available space. But I need first to contact Don McKenzie of Lewis & Clark College, as he'll be doing an NSF-funded study of the gulls in the estuary. Seems there may be more hybrids there, and they act almost as year-round residents. Range Bayer said that during his study 3 yrs ago he did not see any "pure" Glaucous-winged Gulls. I looked around the estuary in front of OSU Marine Institute - pairs are nesting on pilings & docks. Most seem to be good Western, but there was one female on a pile-nest with lighter primary tips - and a Glaucous-winged type bird landed on a pile post near this nest. Maren & I drove out to Yaquina Head - it's really interesting out there! Loads of nesting gulls on grassy slopes & cliff edges beyond the Lighthouse. Offshore rocks covered w/ Brandts & Pelagic Cormorants, Common Murres, Gulls. The gulls are confusing. I saw flying birds that looked like good Glaucous-wing adults - also observed one sitting on grassy tussock - thru scope it had pink eye-ring, brown irides, gray primaries. Some Glaucous-winged seemed to be birds in last stage of juvenile molt. Observed & photographed one pair - where male seemed to have faded pink eye ring, brown irides, gray primaries. Female looked like Western, but she had dark irides. This pair choked together

FIELD NOTES Doug Bell

con't. June 13, 1986

Another pair also appeared mixed - female Western, but with dark irides, male Glaucous-winged, but with faded eye ring pinkish. Confusing? Question - at what point do Western Gulls get yellow irides as they mature - 3rd, 4th year? This spot good for future study.

Could not get ahold of Roy Lowe. Drove on North - spent night in Motel & Marina RV Park, 36220 Resort Drive, on the 503 965-6000 Nestucca River. This is ca. 1 mi. upriver from ~~Nes~~ Pacific City. Raining. Saw a Green Heron along way.

Forgot to note - we stopped at Seal Rocks north of Waldport - St. Park Picknick area - only one good offshore rock w/ nesting gulls. Rock further oult out has cormorants & Pigeon Guillemots. Might be possible shooting site if I get park permission.

June 14, 1986

Left the RV Park, drove about 2 mi. to Pacific City, ORE. From there we took the road down the spit to Nestucca Spit State Park. Even though it was a Saturday, there was nobody there. It had rained hard this morning, but by noon the weather was clear & sunny. We got the equipment out, and headed for the beach. Walked south along the beach about 2 miles - this Nestucca Spit is excellent for shooting gulls, good & secluded. Haystack Rock is about 3 mi to the North. Shot 4 gulls in quick succession with 5 shots (DAB 092-095). Only one of the gulls DAB 095 seems to be less than pure "Western"

con't. June 14, 1986

Most of the gulls flying by on the dune currents are good Western Gull adults (coastal birds). After packing the gulls we went back to the car. Drove thru town for a better view of Haystack Rock. It is just covered in gulls - seems as if every available spot is taken up with nests. Not many other seabirds on the rock - cormorants visible.

Left Pacific City (14:20) and went north on 3 Capes Scenic Route. Stopped at Cape Lookout State Park. Decided to take the trail thru the Sitka Spruce forest to the Cape Lookout Point (2.5 mi. one-way). Beautiful trail, views south to Haystack Rock and north to 3-Arch Rocks. Many singing Swainson's thrush, Varied Thrush, Robins, Wilson's Warbler, Tree Swallows, Crows, Ravens, Stellar's Jay's, saw two Gray Jays (my first ones!?), Winter Wrens. Maren found a winter wren nest tucked in to a small root crevice on a large downed stump - the nest was a neat cup of woven sticks, containing 3 small pinkish/orangish eggs with brownish spotting. One Brown-headed Cowbird Egg also present (I took it).

From the trail could also see ad. West. Gulls, some imm. Glaucous-winged. Common Murres on sea below. A few ~~Brandt's~~ Double-crested Cormorants "soared" past at our level (800 ft). Golden-crowned Kinglets, Cedar Waxwings also seen

We found a campsite, on Netarts Bay, ORE, several miles north of Cape Lookout. Campsite is parallel to road, primitive, but just a great spot! Campground is not state park. Crows, chestnut-backed chickadees, Great-blue

con't June 14, 1986

heron, and flocks of Mallards (males in eclipse plumage) flying past. Western Gulls on bay.

June 15, 1986

We are still heading north on the Three Capes Scenic Route. Drove past the Three Arches N.W.R. - three large offshore rocks visible from the town of Cape Meares, Oregon. Every available spot on those rocks has either gulls, murres or cormorants. We then drove on to Cape Meares Lighthouse. Good view of an offshore rock. On north path to the lighthouse there is a good viewpoint where one can see mainland sea cliffs. Isolated gulls nesting here (Western). One ad. Glaucous-wing flew over the lighthouse. From the path we could see nesting murres on the mainland sea cliffs - some pigeon ~~guilemotts~~ guillemots, and, after a while of watching, a pair of tufted puffins! They were neat. Sat looking undecisively in front of some grassy tussocks. One bird looked like it wanted to go into a hole, but didn't. Instead, it flew down to water in a long, straight drop, out of view, only to return to its companion a half minute later (or was this the same bird). Song sparrows galore here

We drove on to Tillamook, ORE. Looks like the south jetty/spit could be good for shooting. Took a motel room at the IDLE Nook Motel,

con't June 15, 1986

Rockaway, Ore (26.50). We are both not feeling well today. Weather is windy, rainy. After showering we drove north to Nehalem Bay - its a State Park - doesn't look like the long north spit is suitable for shooting - too many houses on south spit. The town of Manzanita, ORE, just north is nice. Nehalem Bay was choppy, only saw 2 ad. Westerns on it (18:50), a couple pigeon guillemots. Drove up Nehalem River a ways - very beautiful country.

June 16, 1986

We drove out to the south Tillamook Bay Spit. This looks like county area, not State Park. Hunting is even allowed during season. From 12:00 - 14:00 we walked north from parking lot along road to the beginning of a forested dune area, then cut west across the spit to the ocean dunes. The beach was at first very secluded. Good spot to shoot. But my aim was off today - couldn't hit the broadside of a barn - shot 3 gulls using 9 shots (one bird I hit twice before it finally came down). Their nos: DAB 096-098. Weather was clear & sunny, fair wind picking up. It had rained this morning. On our way back to the car, on the bay side of the spit, we found a dead gull (fresh) lying on the mud (099). I collected it. It might

June 16, 1986

have been a gull that we saw 2 hrs earlier as we were going out to the dunes. The gull was lying flat as a pancake on the mud, wings ~~drop~~ drooping, and panting. Or, this might have been one of my missed shots that finally came down. But it seems not - as it is very ~~sb~~ light in wt (700 gms) and looks emaciated. From 14:30-16:00 prepared the gulls. We then left Tillamook, ORE & drove to Chinook, WA.

June 17, 1986

We spent the night in the Fort Columbia Youth Hostel. Real nice people, Frank & Sylvia run the place. Fort Columbia is on the Washington side of the Columbia River, just a couple miles west of the Astoria, ORE bridge. We were up & out of the hostel, went to the Chinook Harbor Master's Office MR. GLENN EAGER. Inquired about boats. He said we could use his skiff to go out, but that it is already too rough to go out for today. We already have an outgoing tide too. So Maren & I first drove back to Astoria, ORE to check bank, eat, etc. The Astoria Bridge is a real "gull" bridge. The birds use it to get across the Columbia River without effort - they can soar at ca. 30 mph on the "eddies" created by the bridge and literally follow traffic. We went to Ilwaco and found a motel, as we wanted to repack everything. After 18:00 we drove out to the Northead Lighthouse, then on to Fort Canby and Cape Disappointment. On the way to Fort Canby, WA we saw a Pileated Woodpecker

June 17, 1986

hacking away at a dead tree. We stopped the car, could see him real well about 20 yards away. He hacked the tree so hard, huge wood chips went flying. Often he would grab a 2 inch by 5 inch piece of wood and flick it away with his bill. A pair of flickers seemed upset at his ~~[illegible]~~ presence. The flickers were calling. It was raining lightly, some broken sunlight appearing on the tree every now & then. We could see how the pileated was exposing insect holes and carefully picking them over. As we sat in car a deer ~~[illegible]~~ walked out of the brush. After 15-20 min. of watching the pileated, we drove on. At Fort Canby we had outstanding view of the Columbia mouth, broken ~~clod~~ clouds. A large colony of Double-crested Cormorants is nesting on the rocks below the Cape Dissappointment lighthouse & Fort Canby. They were very agile and fun to watch as they wheeled and turned, sometimes in flocks of 20-30 birds, sometimes as individuals, about the sea cliffs. They soared well. Large rafts of Surf Scoters on water below (+100 birds). Gulls also soaring about here. Most look like good Westerns, but some appear to be Glaucous-winged.

FIELD NOTES Doug Bell

June 18, 1986

The Harbor Master let us take his skiff out to East Sand Island at 12:52. The conditions were a bit too rough before that. High tide was at 10:15. We landed at Northeast end. As it turns out, we would have been better off to land at the middle north shore, just west of the half-circle - pier ruins and the large navigation platform. As we arrived, Maren saw a Canada Goose carrying young piggy-back. Flock of about 25 mallards here. Surf Scoters also rafting. Canda Geese, about 8 birds, 6 of which are about half grown. Loads of Caspian Terns - rasping our presence. Gulls all over too. Seems as if more Glaucous-winged types are nesting on the grassy dredge-spill area at east point of island. This place is a real smorgasborge of gulls! Both Glaucous-winged & Western & hybrids. We marched along marsh shore, and all over is a type of mammal scat - from a plant eater. Some areas, like where I camped in the pines last year, are just covered with these scats. Paths are worn in the grass. Found 2 skulls - muskrat? Also saw what might be Whimbrel - about 5 birds total. At 15:30 I collected 3 gulls - a good Western w/ a bent ~~legs~~ leg, an apparent good Glaucous-wing - with dark irides and pink eyering, and a gull with even lighter primary tips than the Glaucous-wing, but a yellow eye-ring and Western-type irides. Confusing. Maren & I also checked over a number of nests - counting eggs & young. Data follows. Also saw 2 out of season

June 18, 1986

Franklin's Gulls:

Nest data for middle portion of East Sand Island, Clatsop Co., Oregon. Nest habitat for this 50 x 20 meter broad stretch of island is grassy, sandy terraine with driftwood logs. No exposed sand.

			# Nests
Gull Nests:	3 eggs	0 young	5
	1 egg	1 young	2
	2 eggs	1 young	2
	1 egg	2 young	2
	0 eggs	1 young	4
	0 eggs	2 "	6
	0 eggs	3 "	5
	Empty		3
			29 nests

June 19, 1986

Spent the night at the Youth Hostel, Fort Columbia. Then headed for Willapa Bay. Checked out Long Beach - so it is - a long beach, with few gulls, and perhaps miles of purplish ~~Sailor-By-The-Sea~~ that have washed up on shore. They almost look like pebbles. From Long Beach, WA we headed around southern Willapa Bay. In marshes we saw first about 8 Canada Geese feeding. Soon another pair came over, both doing a low, long stretched neck display. Apparently the male then proceeded to chase the other 8 honkers off of the islet that they were resting on. All very

June 19, 1986

excited. The male honker then returned to the ♀, and they did a neck-stretch display for at least a minute. Bathing was the next thing they did. We drove on the the Willapa Bay Natl. Wildlife Refuge office. There at the office, on their pond, were 2 pair of Canada Geese, with 5 & 8 young (3 & 6 weeks old) respectively. Also about 7 other adults on the pond. Refuge Manager is Jim Hidy (no longer Ulrich Wilson). Talked to the sec. Irene Dunlop. We had to wait 2 hrs for Hidy to show up. So we had a late lunch and sat at Willapa Bay, just across from Long Island. A Crow family of 2 ad. & 1 begging young wandered by. Other crows individually bouncing about. When a crow got too close to the boat hut & ramp of the refuge, about 25-30 barn swallows would sound alarm & chase it away. At 16:00 we finally met Jim Hidy. He let us deposit 3 gulls in his freezer. Identified our mammal skulls from East Sand Island, Columbia River, to be beaver. Also said muskrat would be much smaller, nutria would have not had such yellow teeth. Also, nutria scats are not as strong & compacted as the beaver scats we saw littering East Sand. He said young beaver often strike out on their own, can ~~sh~~ inhabit marshes, make deep paths thru marsh & brush (as we witnessed on East Sand). Saw some ring bills gulls on Willapa (immature). Also saw a young (imm.) Calif. Gull on Long Beach. We drove on around the Willapa Bay, over South

June 19, 1986

Bend, Tokeland (a weird town - just mobile homes) and ~~Gra~~ Grayland. We set up camp at Grayland State Park, Grayland, WA. Good place - grassy, lots of brush & short (< 8'), scattered pines. White-crowned Sparrow, Song Sparrow, Bewick's Wren, Black-capped Chickadee Families (!), Red-winged ‸ Shreee-dip dip dip dip. Blackbirds, Brown headed Cowbirds, Downy Woodpeckers, Pheasants (heard crowing), Swainson's Thrush. At a Freshwater pond we found 2 imm (2 yr?) Glaucous-winged Gulls - one dead, other dying. We drove to Westport, on the So. spit of Gray's Harbor. Weather calm, broken cloudy fronts. Towards sunset I watched a light primaried gull w/ pink eye ring & dark eyerides mew with a dark-primaried gull with yellowish eyerings & light eyrides.

June 20, 1986

Rain at 05:00, up at 06:00. Packed up camp, drove to Westport, on Grays Harbor. At a large trailer full of fish remains there were about 100 gulls greedily feeding. Most seem to be of Western Persuasion. But even these vary in their irides from light straw yellow, to greyish (uniform pigment over straw yellow) to dark. Eyerings vary from yellow to flesh to pinkish. While watching the gulls one was apparently hit by a car and sustained head injuries. I collected it immediately (DAB 103).

con't. June 20, 1986

We observed the birds at this trailer at 09:30 and at 12:00. Primary tip color ($\overset{L}{\text{light}}$ = gray; $\overset{D}{\text{dark}}$ = black); Eyering color (Y = yellow, F = flesh, P = pink) and Iris color were noted (L = light, D = dark, G = gray) for the following categories:

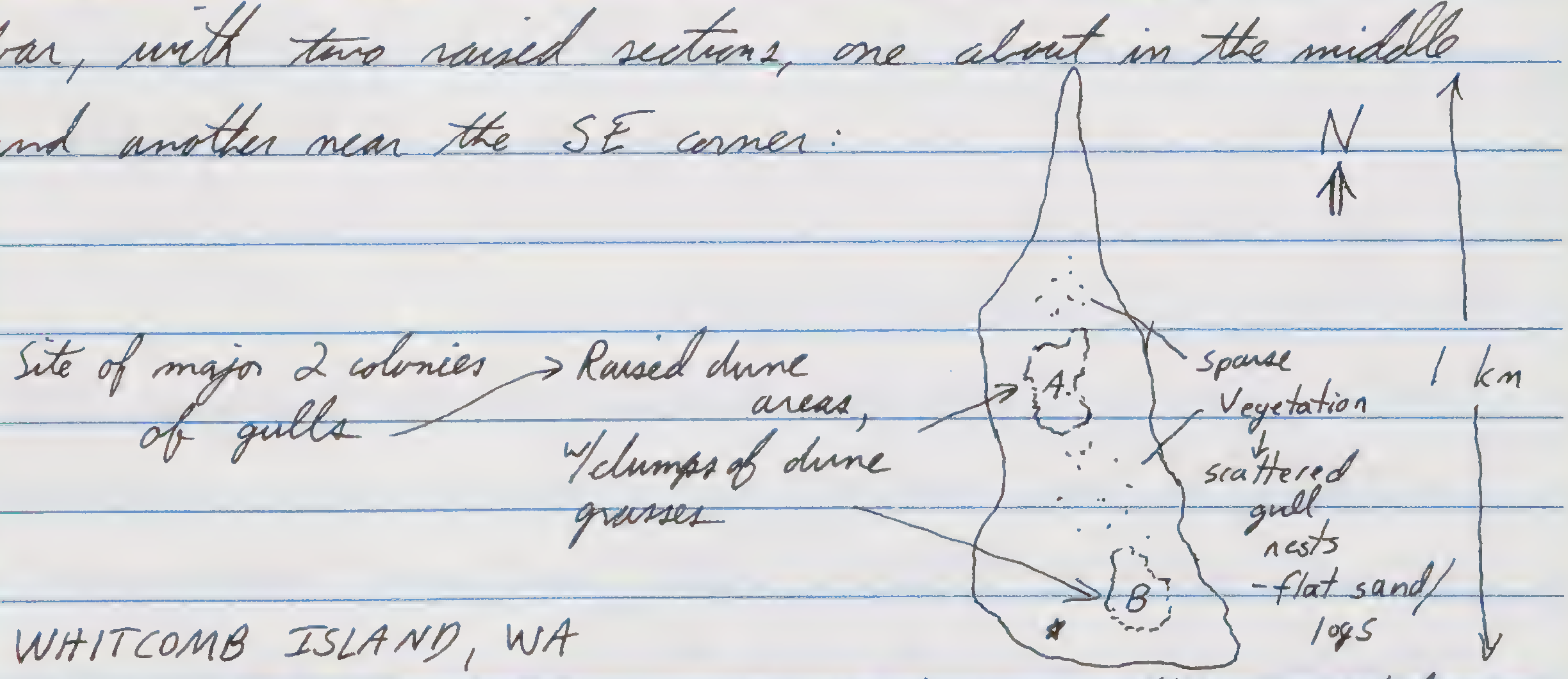
P°	Eyering	Iris	# of birds	
D	Y	L	卌 卌 卌 ||	= 17
D	Y	D	卌 卌 |||	= 13
D	Y	G	卌 卌 卌	= 15
D	F	L	0	= 0
D	F	D	||	= 2
D	F	G	|||	= 3
D	P	D	0	= 0
				T = 50
L	Y	L	0	= 0
L	Y	D	0	= 0
L	Y	G	|	= 1
L	P	D	||	= 2
L	P	G	|||	= 3
L	F	D	||	= 2
L	F	G	|	= 1
				T = 9

In addition, a 3rd year possible hybrid gull (grey back, brownish shoulders) had grayish irides.

After counting and noting the gulls at the fish dumpster, we called up Steve Speich in Olympia to see about

con't. June 20, 1986

getting a boat ride to Whitcomb Island in Gray's Harbor, WA. He suggested contacting the owner of Brady's Oysters on the south bay, just before the Elk River. We went there, he suggested contacting KEN WORTHINGTON in Westport, WA. This we did, and he agreed to take us out to the island for $20.00, would drop us off, then pick us up later. So at 14:00 he took us out to Whitcomb Island in Gray's Harbor. We landed on the south west corner with his Dory, which was no problem as the bank was relatively steep here. We landed at about 1/4 outgoing high tide. He agreed to pick us up at 18:00. Whitcomb Island is essentially very flat, sandy bar, with two raised sections, one about in the middle and another near the SE corner:


N
1 km
Site of major 2 colonies of gulls
Raised dune areas, w/clumps of dune grasses
A
B
Sparse Vegetation
scattered gull nests
-flat sand/logs
*

WHITCOMB ISLAND, WA
GRAYS HARBOR

* all other areas could be inundated by tidal action.

We censused about 1/4-1/5 of the areas containing nesting gulls on the island. This censusing was done in the major colony at the raised area of the island (A). The following categories of nests and nest progress were noted:

con't June 20, 1986

Census of gull nests on Whitcomb Island, Grays Harbor, WA: (encompassing ca. 1/4 to 1/5 of all nests on the island).

Nest Status	Number of Nests	Totals
Empty	𝍸 ||	7
1 egg	𝍸 𝍸	10
2 eggs	𝍸 𝍸 𝍸 𝍸 𝍸 |	26
3 "	𝍸 𝍸 𝍸 𝍸 ||	22
1 chick	𝍸 ||||	9
2 chicks	𝍸 𝍸 ||	12
3 "	𝍸 𝍸	10
1 egg 2 chicks	𝍸 ||	7
1 egg 1 chick	||	2
1 dead chick	|	1
		106 nests.

After censusing I set out to trap birds in colony B. I had poor success, catching only one bird (♀) off of a 3 egg nest (eggs not taken) - DAB 104. As time was getting advanced I got the gun and collected 2 other birds at this colony site (DAB 105, 106). I fired once with the 410, and 4 times with the 16 guage to down the 2 birds. Poor shooting!

June 21, 1986

Stayed in Motel in Aberdeen, WA.. Up & out, drove around north end of Grays Harbor, to Ocean Shores. The coast north of Grays Harbor is mostly resort. We could not find a suitable place to do the gulls. Went therefore back to Grays Harbor. Found good spot to do the gulls along a river that empties into the north side of Grays Harbor. After doing them, we drove on to Olympia. Great view of Mt. Rainier along the way. Saw an active Osprey nest near the nuclear power plants. Arrived in Olympia at about 17:40. Called Steve Speich, then went to Port of Olympia. The marshy area near East Bay Harbor, just behind the huge log piles, has been reduced by 2/3 and filled in with gravel. As a consequence, there are only 5 gull nests on the flats here. Still, lots of gulls are all over the place at this port. There seem to be more gull nests at the pier and on the small island at West Bay Drive, Olympia. All Glaucous-winged. At 19:00 we drove over to see Steve & Chris Speich, then went on to Seattle.

June 22, 1986

Another incredibly beautiful day. Spent day in the city w/ Ken & Sara. Watched boats & birds at the locks which control Lake Washington - Puget Sound Traffic. Good spot for gull watching. At the locks there were some Glaucous-winged birds with nearly light-gray irides, pink eye-ring.

FIELD NOTES Doug Bell

June 23, 1986

Drove from Seattle to the ferry at Mulkiteo (sp.?), which took us then over to Keystone on Whidbey Island. Then went to South Whidbey State Park - had ~~lunt~~ lunch. Nice spot, green firs, grassy. We drove on to Kingston to catch the ferry over to Port Townsend. The beach just south of Kingston would be a good shooting beach. The ferry ride was real windy, clear sky, sunny. Saw large rafts of feeding gulls & Rhinocerus Auklets. We met Steve Speich at Sequim Bay State Park. Camped there.

June 24, 1986

Steve Speich motored us in his boston whaler over to protection Island. Some wind, rough water, but sunny. Arrived at the island around 10:00. The island watcher from the Beach Club gave us a cool welcome, and Steve an even cooler one. But after he checked with Joe Galusha, he let us on. We were driven to the trailor, unloaded our stuff. By 11:30 we had our traps set out on grassy slopes at the brink of the steeper soil cliffs on the south side of the island. There are loads of Glaucous-wings here. Rhino Auklet burrows abound on the slopes & amongst the gull nests. Trapped one gull off the 3 egg nest (DAB 108) and one off a 2 egg nest (DAB 107). Then reset traps, went back to trailor. At the trailor we got a good view of the Bald Eagle nest. In fact, on our way back along the road we saw one adult flying over the spit area. At the nest

con't June 24, 1986

I saw an adult fly down away from the nest. Then the flap of a wing, dark primaries from in the nest. The time was now 14:00. We went back to the trap spot, at the confluence of the roads leading down along the cliffs to the harbor. Caught the mate to 108 (DAB 109) off the 3 egg nest. ~~Went~~ Called Steve Speich on radio (17:00). Back at the trailer we were treated to great views of both adult eagles. They were being ~~hassld~~ hassled by crows. It was fairly windy now, when the eagles turned their heads away from the wind, the feathers would stick up like harpy eagles. Really beautiful birds! Brown-dark body feathers, streaked, yellow legs, bills, irides. One bird, the ♂, flew over to the ♀, sat near her (pictures?). He yawned a lot, scratched ear, yawned some more. Through the late afternoon we were treated to many views of these birds. The nest is not more than 200 ft. from the trailer, up in the crotch of a pine that's thickly leaved below, but open above. Still, its protected ~~from~~ by branches & stumps above. Nigel Ball & Mark Opp came by, we talked up a storm. Other birds on island: Allen's Hummers, Am. Goldfinches, Crows, Barn & Violet Green & Tree Swallows, Song Sparrows (4 baby Cowbirds in tow!), Pheasant, Starling, Rough-winged Swallows, Brown-headed Cowbirds - even saw an imm. begging from Song Sparrow parent. Savannah Sparrows, Peacocks (of course!), Bewick's Wren.

June 25, 1986

Awoke to the hunger calls of a young bald eagle. Got view of him sitting up in nest (6½ weeks old). Black head & back. Grayish bill, deep, dark eyes. The adults really did not mind our presence within 80 yards of the nest tree - they were very used to activity at the Walla Walla Colleges' Trailor. At various times throughout the day we could see the adults sitting either at the nest tree, or on favored trees nearby. They sometimes sat close together in the same tree. The adults were frequently hassled by one or more Northwestern Crows. Often a single crow would begin diving on a sitting adult bald eagle. The crow would utter various guttoral, raucous caws, and incessantly stoop at an eagle, back and forth in a fashion eactly like stooping a trained falcon at a lure. The eagle had no choice but to sit this treatment out, occaisionally dodging its head or uttering shrreeump shreeeump calls. I never did see a crow actually hit or peck an eagle on its stoop, but they did come very close.

Today I am trapping on gulls' nests just a little ways (50 yds) west of where I was yesterday. This area of Protection Island (WA) is of the same habitat as the area of yesterdays' trapping. Namely - thick grass clumps on uneven soft terraine riddled through with Rhino Auklet burrows. The gulls nesting here on this portion of the south side of the island are doing so from the road on down to the brink of steep,

con't. June 25, 1986

sandy cliffs. This area between the road and the edge of the cliffs encompasses anywhere from 10-60 meters, and varies in slope from level to about 45 degrees. Through the course of the day I caught one bird off a one-egg nest (DAB 110), egg taken, another gull off a three-egg nest (DAB 111) and finally, a bird off a two-egg nest (DAB 112), two eggs taken. Unfortunately, the mates could not also be trapped. Often when we returned from trapping to the trailer we could see one of the adult bald eagles sitting in a snag - looking quite conspicuous from a long way off. Towards sunset we went to the cliffs on North side, near the airfield, and watched several Tufted Puffins as they circled about in front of the high sea cliffs (500 ft) and their currents as the wind picked up. Puffin would fly past within a few yards of us. They were good soarers as long as the wind kept up. Its funny to see gulls sitting in tall dead trees, but they do that on this side of the island. Here I also saw what looked like a good Western Gull soar past the cliffs. Nigel Ball later told me he has a pair of dark-primary tipped, yellow eye-ring & iride gulls nesting near his blind down on the east spit in their study area. At dusk I checked the traps - had caught a perfect ♀ Glaucous-wing on a 3 egg clutch - she had uniform dark brown irides, pink eye ring, gray primaries - and was in perfect feather. I let her go free. We returned to Nigel Ball, Mark Opp & Jim's House for a dinner

con't. June 25, 1986

invitation. The "Beach Club" caretaker was also there, John Lorenz. About ½ hour after sunset (22:30) we could see, from their living room, Rhino Auklets returning from the sea to their burrows. They seemed to land heavily onto the ground (5 yds to cliff from the house), and then just sit awhile in order to orient themselves.

June 26, 1986

Camped again in the same spot - near the Walla Walla trailor. Talked with Melinda, Mary + Joe Galush just a bit last night before ~~retiring~~ retiring. Up today at 7:00. Jim offered to help me catch gulls with a new cannon-net set-up they developed, so I agreed. It took a while to set up, but we did this over a 3-egg nest in the same general area I had been trapping before. The nest was on a level patch. The cannon net was probably 1½ m². It was attached to 4 rings - one at each corner, and the rings were run down 2 1-meter wood dowels to lock behind 2 solenoid controlled holding pins. The rings were then put under tension by attatching the 2 leading rings to 12 foot bungee cords, which were staked into the ground, stretched + activation of the solenoids, releasing the pins holding the net, was affected by circuit-closing pin; powered by a car battery. The whole operation worked very well. The female gull walked onto her nest, looked a bit uneasy, but we

June 26, 1986

caught her (OAB 113). I took her 3 eggs too.
After packing everything up Joe Galusha took us off the island in his boston whaler. We went back to the boat ramps at Sequim Bay State Park. On leaving Protection Island, just outside the marina, I again, as last year, saw a pair of Harlequin Ducks.
Maren & I left Sequim Bay at 12:15, heading south. We were in Olympia by about 15:30. Left Olympia at 16:15, drove to Willapa Natl Wild. Refuge Headquarters (Ilwaco, WA) by about 18:10, then went on to Rockaway, Oregon (20 mi N. Tillamook), arriving about 21:30.

June 27, 1986

Went from Rockaway, ORE. to Crescent City, CA. today. Picked up my "freezer" gulls in Tillamook County Hospital and at the OSU Marine Science Lab in Newport, ORE. Left a message there for Roy Lowe. The gulls at Yaquina Head, ORE. were making good nesting progress. Over half of the nests had chicks ranging in age from fresh to 2 weeks old. Saw good Westerns with dark irides, and good Glaucous (or hybrids?) with light irides & yellow eye rings. One pair near the lighthouse had a male light-primaried gull with yellow eye ring, ~~lighter~~ darker irides, and a female with Western characters except for relatively darker irides. Lots of Pelagic ~~cormor~~ Cormorants and Common Murres with chicks here too. White-crowned Sparrows singing.

FIELD NOTES   Doug Bell

June 28, 1986.

Spent the night in a motel in Crescent City, CA. While turning off south-bound US 101 just as it curves sharply at the south end of Crescent City, Maren spotted a fresh, but dead, Cassins Auklet lying on the street, below a large neon sign. We collected the Auklet (DAB 114) - it's in good shape, has a few ~~[illegible]~~ lice.

We headed south, picking up gulls from freezers in Crescent City, Trinidad HSU Marine Lab, and HSU Wildlife Dept. Also stopped in at John + Dusty's in Weott. Next stop was at the Hopland Brewery, where the bartender told us that Peregrines are nesting on Squaw Rock, in so. Mendocino Co, just on 101. We stopped at this beautiful rock from 20:20 to 20:50. At first we saw what I thought was just a Kestrel soaring above the rock. Then Maren pointed out an adult Peregrine (♂) sitting way up, so that only his upper breast & head were visible on the rock. He sat at one spot for 10 min, then flew across the rock to the middle of it and disappeared on a large flat fissure (ledge). We were then treated to several short, but sweet views of an imm peregrine (also ♂), as it soared about the very top of the rock, darting with the wind to and fro. It was a great sight to end our field trip!

July 11, 1986

09:30 - Alcatraz I, S.F. Bay, Calif. w/ Ray Pierotti - recording gull calls on cistern. Tape I., side 2, near last 1/4 of tape. Broad shots of colony - recording all at once - long calls - mild alarm calls, chicks begging. Mups-mup mmep calls, etc.

10:30 - Recording calls & begging at building next to parade grounds. Lots of interference from helicopters, people, pile-drivers at fisherman's wharf. Collected 3 dead chicks (1 banded) off the parade Grounds.

11:31 - group of adults fighting on tin roof of building next to Parade grounds. One chick seen tumbling away from melee. Outstretched wings so it wouldn't roll off roof. All 3 chicks of brood struggled to get away from fighting, reassembled together, huddling at edge of roof.

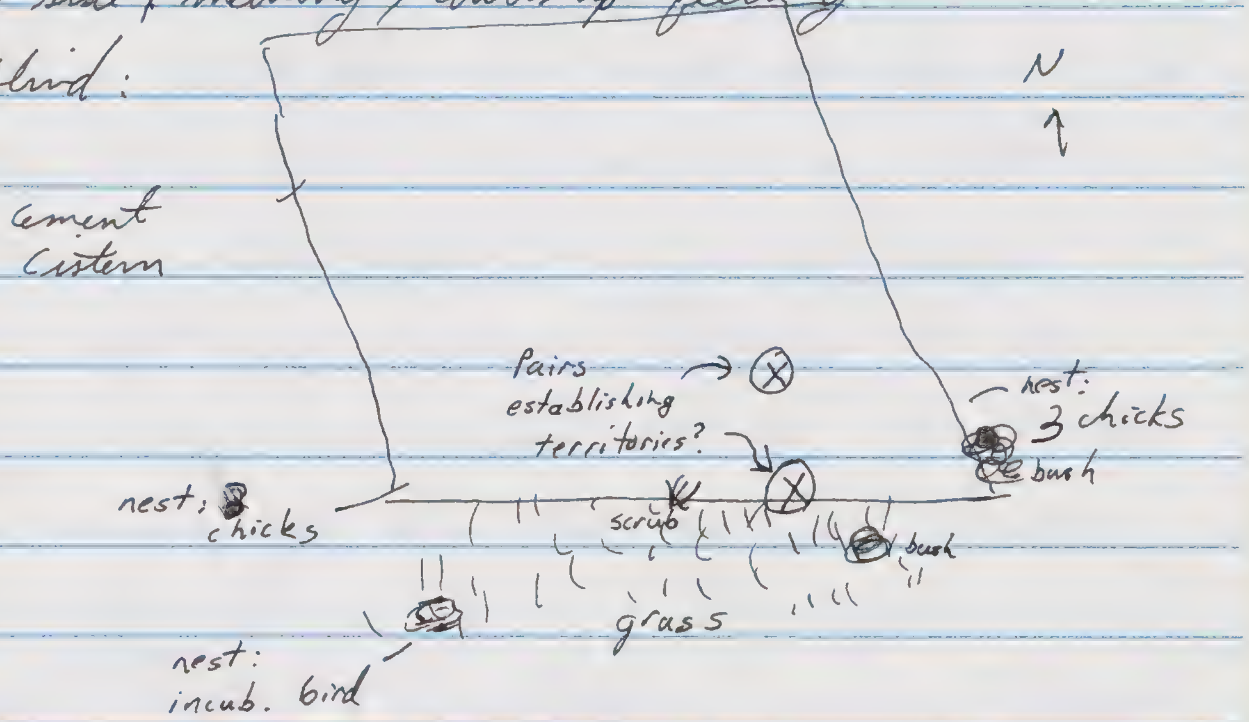
11:45 - Back at cistern. Recorded a couple intervals. Banded birds - one (♂?) left leg, silver F&W & white band. ♀ behind him has only a F&W band, right leg.

11:50 - Adult ♀ on IB - regurgitates couple anchovies. 11:58 Adult on cistern - regurg. 4 anchovies - 2 chicks devour first 2, then "play" with next 2 anchovies. - just as Ray's captive birds do.

12:14 - IB - chicken regurt to 3 chicks. adult keeps picking up remains to entice chicks to eat chicken chunks.

July 11, 1986

12:20 - Alcatraz I., SF Bay. Weather - clear sunny, wind ↑.
2 pairs of gulls on the cistern are apparently "chickless" - but are going through extensive choking, long calling, sitting side by side, mewing, courtship feeding.
View from blind: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grass
nest:
incub. bird

July 12, 1986

10:50 : Alcatraz I., S.F. Bay, Calif. Weather - clear, but high fog over Golden Gate. Sunny, cool in shade. Windy - moderate. In blind with Maren - view over cistern, including building. Most chicks about 3-4 weeks old. Some younger, some older. Behind rock 32 a couple chicks are practicing flying on the strong wind: flap, bouyed up 1-1½ m, then back down to the ground. Heavy begging from the chicks. The two pairs that were seen "on new territories" yesterday are not there now.

10:58 - Adults doing frequent long calling, 2 pair also mewing. Combat - one adult of 3 chick nest on close right corner stooped on a lone adult sitting on cistern. Dropped directly on it, grabbing bill, tussel ensued. Finally, the attacked bird got

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free, flew off, only to be stooped on by another adult. After the second attacker dived, its "mate" soared by giving long call. One gull on IB still incubating, other pair on cistern close to blind also incubating.

11:08 - Chick feeding - small fish. 11:10 another fish feeding - small anchovies? (<3"). 11:14. Starling chased away by adult ♀. 11:20 - Chick in front practicing flying. 11:24 - feeding - garbage.

11:28 - 4 yr. bird - adult back except for windowless brownish P°s, and a couple tail feathers w/ black: banded, left leg, F&W & yellow. Adult on cistern, banded, left leg, F&W & white. On cistern - 4 yr. bird (?) banded left leg - F&W., 2 rows of light brownish coverts on shoulders, spaced blackish P°, windowless, and some black on tail.

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